POWER JACK ASSEMBLY

Model	Production Dates	Jack Assembly #	Motor #	Id Factor
SEL	Oct. 83 to Nov 89	SK50145	SE50004	22"-115VAC-Gear Box
SEM	Oct. 83 to Nov 89	SK50145	SE50004	22"-115VAC-Gear Box
SEL-X	Nov 89 to Sept 91	SK50493	SE50025	17"-115VAC-Chrome Shaft
SEM-X	Nov 89 to Sept 91	SK50493	SE50025	17"-115VAC-Chrome Shaft
SEL-T	Sept. 91 to July 93	078192-1	078192-2	24VDC Pancake Motor
SEM-T	Sept. 91 to July 93	078192-1	078192-2	24VDC Pancake Motor
SEL-R	July 93 to Present	2346100	N/A	24VDC Plastic Housing
SEM-R	July 93 to Present	2346100	N/A	24VDC Plastic Housing
SGM	Oct. 83 to Feb 87	SK50314	SE50025	19"-115VAC
SGL-X	Feb 87 to Dec 90	SK50493	SE50025	17"-115VAC-Chrome Shaft
SGM-X	Feb 87 to Dec 90	SK50493	SE50025	17"-115VAC-Chrome Shaft
SGL-T	Nov. 89 to Feb 93	078192-1	078192-2	24VDC Pancake Motor
SGM-T	Nov. 89 to Feb 93	078192-1	078192-2	24VDC Pancake Motor
SGL-R	Feb 93 to Current	2346100	N/A	24VDC Plastic Housing
SGM-R	Feb 93 to Current	2346100	N/A	24VDC Plastic Housing

Tilting Skillets

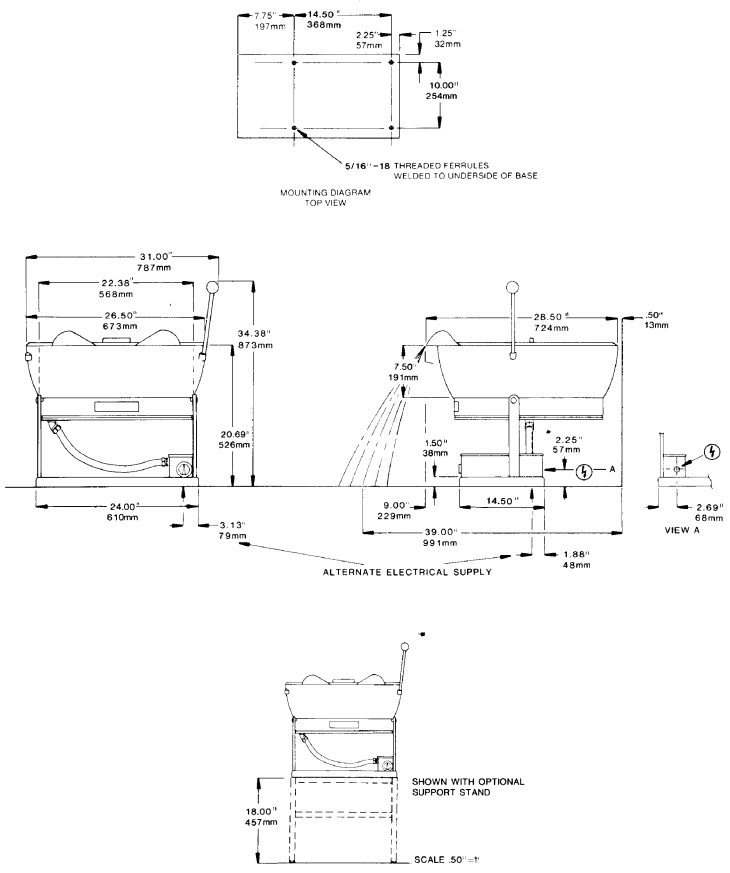
TABLE TYPE, ELECTRIC

15 GALLON
ROUND TILTING SKILLET

MODELS: ☐ SET-15

ITEM NUMBER _____

JOB NAME / NUMBER _____



SHORT FORM SPECIFICATION

Shall be CLEVELAND, Round Tilting Skillet, Model SET-15; ____ KW ____ Volts, 15 Gallon Capacity (56 liters). Complete with: Thermostatic and Safety Controls; Bead Blasted Cooking Surface; Lift-Off Cover with adjustable Vent. All Stainless Steel Construction.

ELECTRIC ⚡

208 V			240 V			220/380 V			240/416 V		
KW	AMPS 1PH	AMPS 3PH	KW	AMPS 1PH	AMPS 3PH	KW	AMPS 1PH	AMPS 3PH	KW	AMPS 1PH	AMPS 3PH
7.4	35.4	20.5	7.8	32.7	18.9	6.5	N/A	10.0	7.8	N/A	11.0

DUAL VOLTAGE OF 220 / 380 SHOWN ON CHART REQUIRE A 4 WIRE, 3 PHASE ELECTRICAL SUPPLY.

CLEARANCE

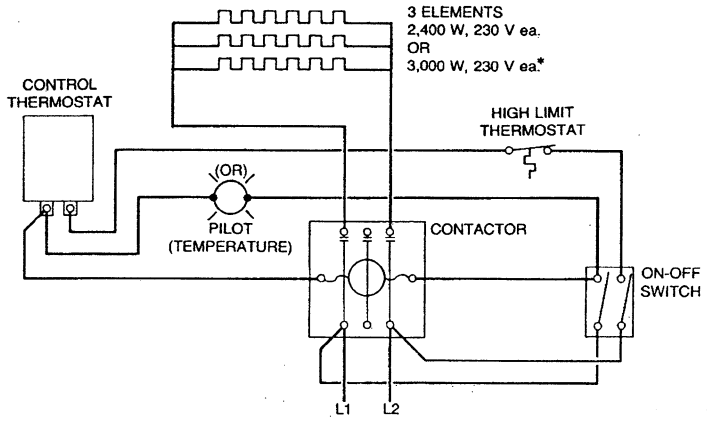
RIGHT = 4.00″
LEFT = 4.00″
REAR = 0.50″

Cleveland Range reserves right of design improvement or modification, as warranted.

Cleveland Range Inc.
Ph: 1-216-481-4900 **Fx**: 1-216-481-3782
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Visit our Web Site at **www.clevelandrange.com**

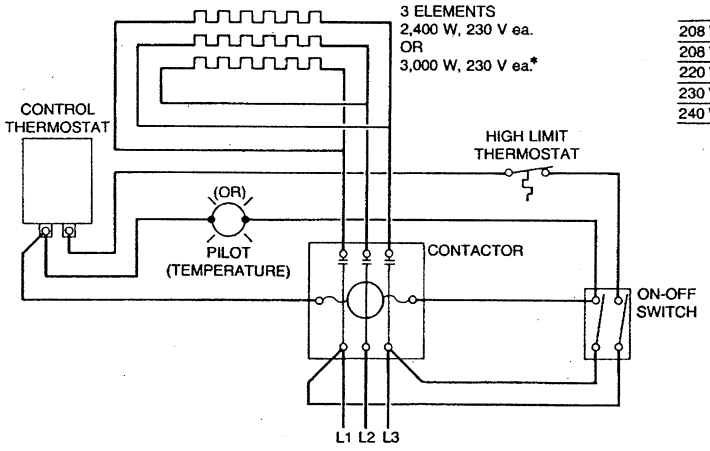
MODEL SET-15 SKILLET
WIRING DIAGRAM

208-240 V 1 ph



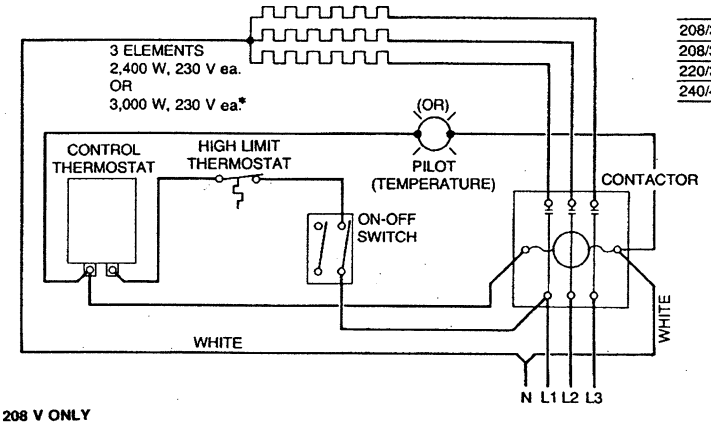
	KW	AMPS
208 V, 1 PH	5.9	28.4
208 V, 1 PH	7.4	35.4
220 V, 1 PH	6.5	29.8
230 V, 1 PH	7.2	31.3
240 V, 1 PH	7.8	32.7

208 - 240 3 ph



	KW	AMPS
208 V, 3 PH	5.9	16.4 per PH
208 V, 3 PH	7.4	20.5 per PH
220 V, 3 PH	6.5	17.2 per PH
230 V, 3 PH	7.2	18.0 per PH
240 V, 3 PH	7.8	18.9 per PH

208/360, 220/380, 240/416 V, 3 ph



	KW	AMPS
208/360 V, 3 PH	5.9	9.4 per PH
208/360 V, 3 PH	7.4	11.8 per PH
220/380 V, 3 PH	6.5	9.9 per PH
240/416 V, 3 PH	7.8	10.9 per PH

*** 3,000 W OPTION AVAILABLE FOR 208 V ONLY**

Cleveland

Tilting Skillets

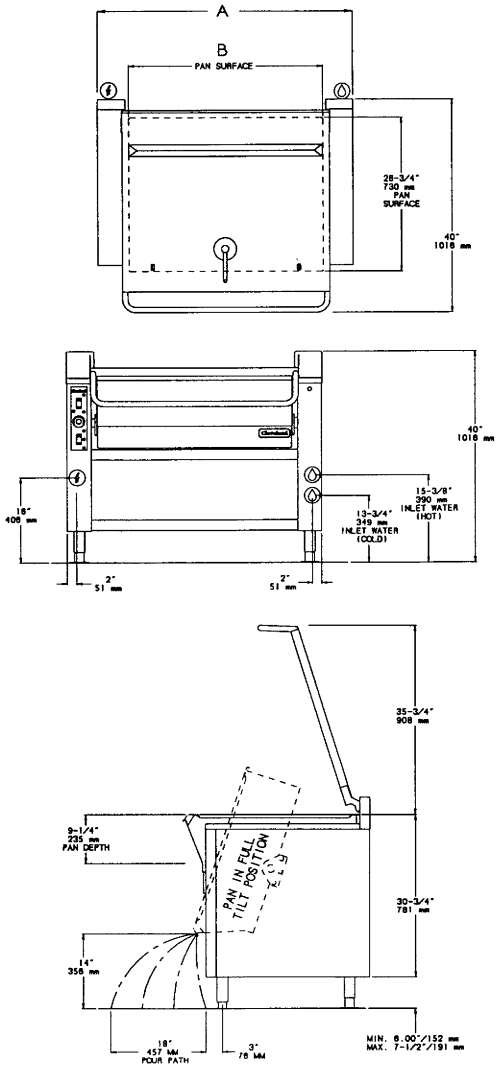
ELECTRIC TILTING SKILLETS

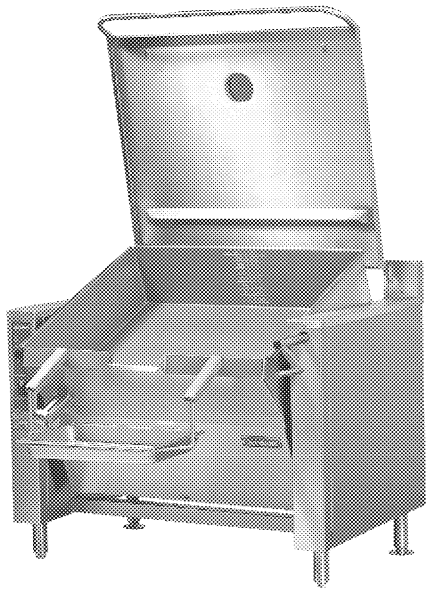
OPEN BASE TYPE
"SPLASH PROOF SERIES"

MODELS: ☐ SEL-30-T4
☐ SEL-40-T4

ITEM NUMBER _____

JOB NAME / NUMBER _____





Shown with optional Pan Carrier

SHORT FORM SPECIFICATION

Shall be Cleveland, Tilting Skillet; Model SEL-____- T4 Electric, ____ KW, holding no less than ____ gallons; complete with "Splash Proof" Solid State Controls; Gallon Markings; Dual Power cooking controls; 5/8" Stainless Steel Clad Cooking Surface; Power Tilt with Manual Override; Spring-Assist Cover. Elements cast into aluminum blocks. All Stainless Steel Construction.

MODEL	CAPACITY		DIMENSIONS				LOADING CHART											SERVICE CONNECTION
Basic No.	U.S. Gallons	Liters	A		B		Total kw. Load	3-Phase–480V			3-Phase–240V			3-Phase–208V			1-Phase	
			in.	mm.	in.	mm.		X	Y	Z	X	Y	Z	X	Y	Z	240	208
SEL-30-T4	30	115	36	914	24.5	622	12	15	15	15	29	29	29	34	34	34	50	58
							16	20	20	20	39	39	39	45	45	45	67	77
SEL-40-T4	40	150	48	1219	36.5	927	18	22	22	22	44	44	44	51	51	51	75	87
							24	29	29	29	58	58	58	67	67	67	N A	N A

Electrical connection – terminal block located inside console

INSTALLATION NOTES

MINIMAL WALL CLEARANCES	Rear	Sides	
	AS REQUIRED FOR CONNECTION	in.	mm.
		1	25

Cleveland Range Inc.
Ph: 1-216-481-4900 **Fx**: 1-216-481-3782
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Visit our Web Site at **www.clevelandrange.com**

CLEVELAND RANGE SEL T4
SEQUENCE OF OPERATIONS

When using these instructions refer to the SEL-T4 wiring schematic.

1. Supply Voltage is sent to the primary of the120 VAC transformer.

2. Supply voltage is sent to the normally open contacts of the Heat Contactors, C1 and C2.

3. 120 VAC is sent from the secondary of the 120VAC transformer to
    - L1 and L2 of the High limit circuit board.
    - L1 and L2 of the thermostat circuit board.
    - The bottom micro switch and the mercury switch

4. If the skillet is in the down position 120 VAC is sent through the micro switch to the normally closed contacts of the high limit circuit board to the On/Off switch.

5. With the On/Off switch in the On position 120 VAC is sent to Pin 9 on the thermostat circuit board.

6. If the steamer is calling for heat the 120 VAC is sent from pin number 10 to the indicator light and the heater contactor coils C1 and C2.

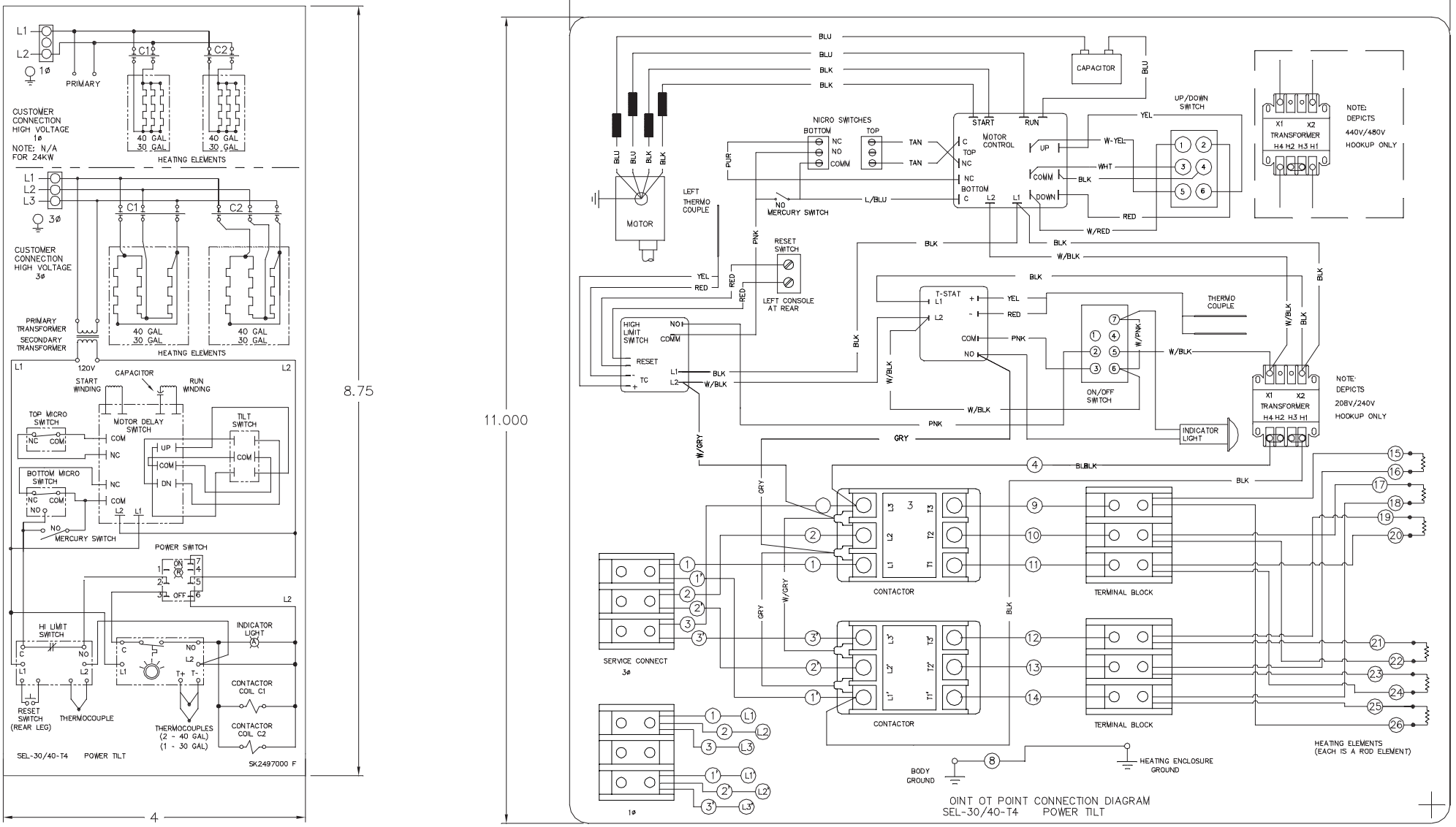
7. The heater contactors close and supply voltage is sent to the elements.
    - The elements heat until the thermostat is satisfied.

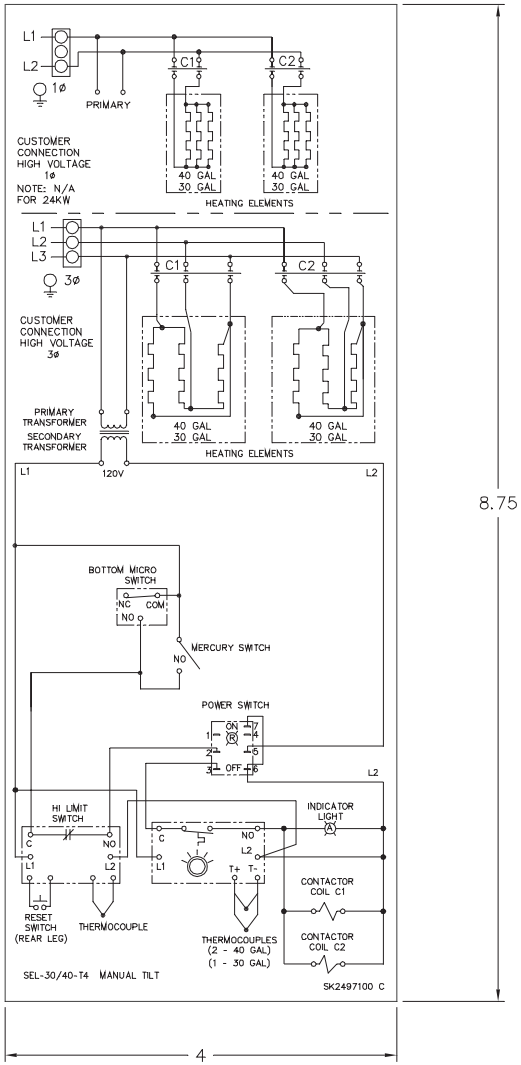
8. When thermostat is satisfied, 120 VAC is removed from pin 10 on the thermostat and the heat circuit is de-energized.

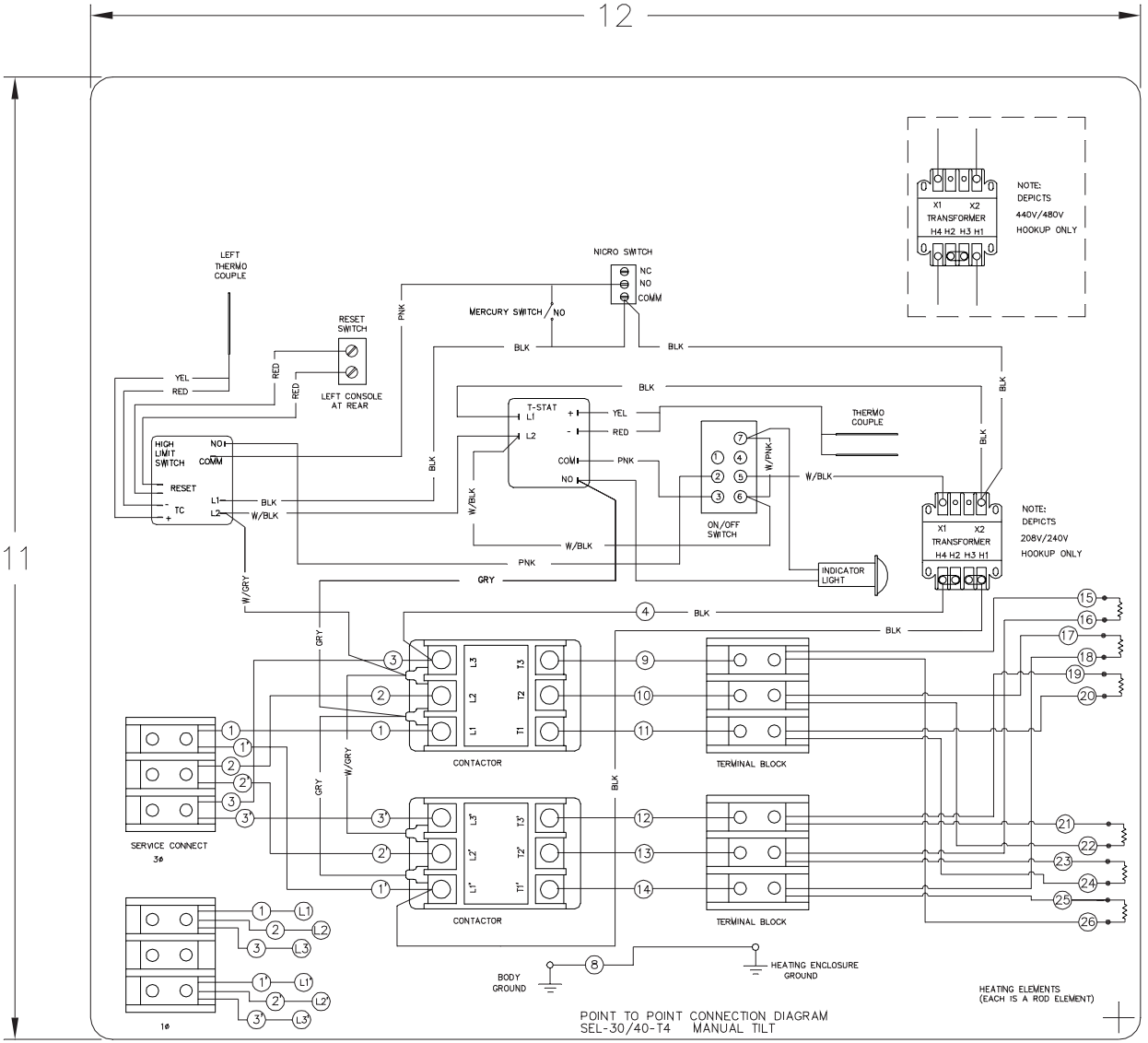
9. If the skillet has the optional Power Tilt option and is in the down position, 120 VAC is sent from the secondary of the 120 VAC transformer to L1 and L2 of the Motor Control circuit board.

10. With the tilt switch in switch in the Up position the motor control board sends 120 VAC to the drive motor and the skillet raises until the up micro switch opens or the operator releases the tilt switch.
    - In the up position the bottom micro switch normally open contacts are open and the skillet will not heat.

11. With the Tilt switch in the Down position the motor control board sends 120 VAC to the drive motor and the skillet lowers until the down micro switch normally closed contacts open or the operator releases the tilt switch.
    - In the down position the normally open contacts of the bottom micro switch are closed and the skillet may heat.


12.000
11.000
8.75
4
L1
L2
1ø
PRIMARY
C1
C2
CUSTOMER CONNECTION HIGH VOLTAGE 1ø
NOTE: N/A FOR 24KW
40 GAL 30 GAL
HEATING ELEMENTS
L3
3ø
CUSTOMER CONNECTION HIGH VOLTAGE 3ø
PRIMARY TRANSFORMER
SECONDARY TRANSFORMER
120V
CAPACITOR
START WINDING
RUN WINDING
TOP MICRO SWITCH
MOTOR DELAY SWITCH
TILT SWITCH
BOTTOM MICRO SWITCH
MERCURY SWITCH
POWER SWITCH
HI LIMIT SWITCH
INDICATOR LIGHT
RESET SWITCH (REAR LEG)
THERMOCOUPLE
THERMOCOUPLES (2 - 40 GAL) (1 - 30 GAL)
CONTACTOR COIL C1
CONTACTOR COIL C2
SEL-30/40-T4 POWER TILT
SK2497000 F
BLU
BLK
PUR
L/BLU
W-YEL
WHT
RED
W/RED
W/BLK
YEL
PNK
GRY
W/GRY
W/PNK
TAN
NICRO SWITCHES
MOTOR CONTROL
UP/DOWN SWITCH
MOTOR
LEFT THERMO COUPLE
NO MERCURY SWITCH
RESET SWITCH
LEFT CONSOLE AT REAR
HIGH LIMIT SWITCH
T-STAT
THERMO COUPLE
ON/OFF SWITCH
INDICATOR LIGHT
X1 X2 TRANSFORMER H4 H2 H3 H1
NOTE: DEPICTS 440V/480V HOOKUP ONLY
NOTE: DEPICTS 208V/240V HOOKUP ONLY
CONTACTOR
TERMINAL BLOCK
SERVICE CONNECT 3ø
BODY GROUND
HEATING ENCLOSURE GROUND
HEATING ELEMENTS (EACH IS A ROD ELEMENT)
OINT OT POINT CONNECTION DIAGRAM
SEL-30/40-T4 POWER TILT





POINT TO POINT CONNECTION DIAGRAM
SEL-30/40-T4 MANUAL TILT

Cleveland

Tilting Skillets

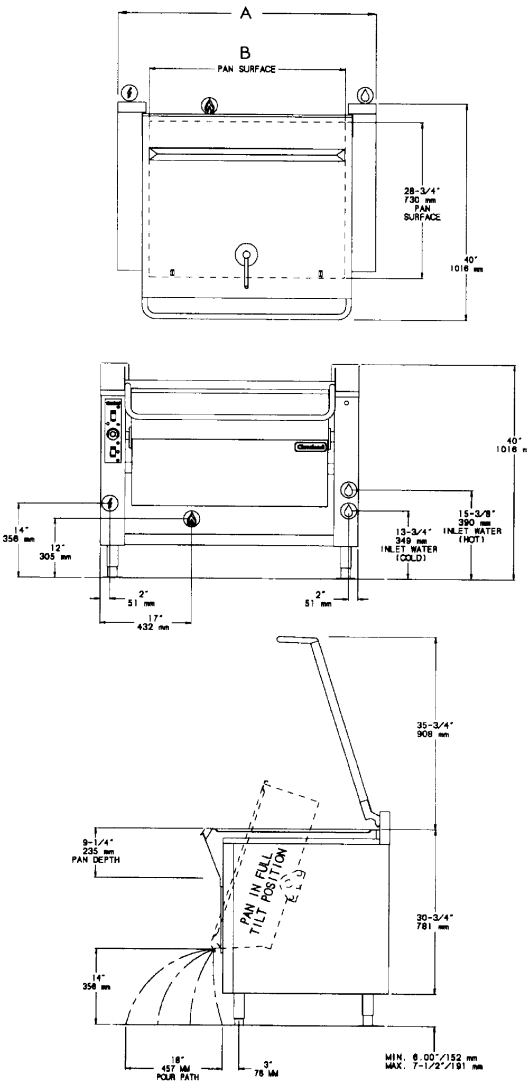
GAS TILTING SKILLETS

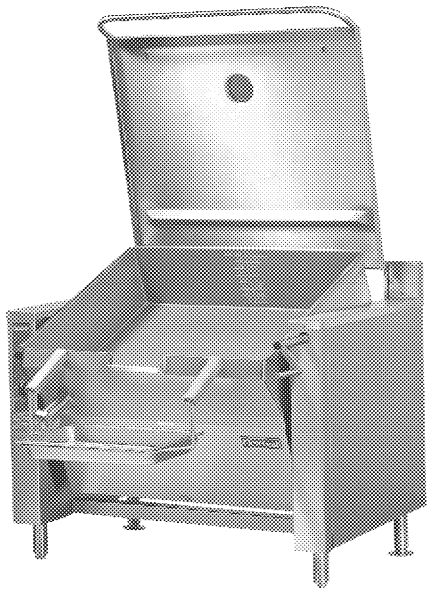
OPEN BASE TYPE
"SPLASH PROOF SERIES"

MODELS: ☐ SGL-30-T4
☐ SGL-40-T4

ITEM NUMBER _____

JOB NAME / NUMBER _____





Shown with optional Pan Carrier

SHORT FORM SPECIFICATION

Shall be Cleveland, Tilting Skillet; Model SGL - ____ - T4 gas (Type ___) holding no less than ____ gallons; complete with "Splash Proof" Solid-State Controls; Gallon Markings; Dual Power cooking controls, 5/8" Stainless Steel Clad Cooking Surface; Power Tilt with Manual Override; Spring-Assist Cover. All Stainless Steel Construction.

MODEL	CAPACITY		INPUT CHART		DIMENSIONS				INSTALLATION NOTES		SERVICE CONNECTIONS	
			NATURAL GAS		A		B					
Basic No.	U.S. Gallons	Liters	B.T.U. Inputs Per Hour	Gas Inlet	in.	mm.	in.	mm.				
SGL-30-T4	30	115	125,000	¾" N.P.T.	36	914	24.5	622				
SGL-40-T4	40	150	200,000	¾" N.P.T.	48	1219	36.5	927				

SUITABLE FOR INSTALLATION ON COMBUSTIBLE FLOORS

MIN. CLEARANCE TO COMBUSTIBLE OR NON-COMBUSTIBLE WALLS:

SIDES	1"
BACK	6"

GAS PRESSURE REQUIRED:

Normal supply pressures

NATURAL	7" WC
PROPANE	12" WC

GAS INPUT RATINGS - Ratings shown are for natural gas installations up to 2000 feet (610mm) above sea level. B.T.U. input ratings must be derated for high altitude installations. Specify altitude of project if over 2000 feet (610 meters). For other gases specify type, calorific value, specific gravity and pressure at appliance. Note: When ordering specify type of gas to be used.

Electrical connection – supplied with 10 ft. cord – 1 phase grounded outlet – 3 ampere max.

Gas connection – ¾" N.P.T.

Cleveland Range Inc.
Ph: 1-216-481-4900 **Fx**: 1-216-481-3782
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Visit our Web Site at **www.clevelandrange.com**

SEQUENTIAL OPERATION OF SGL30 OR 40 T4 SKILLET

1 As soon as power is supplied to the unit, the motor control board, the high limit switch, the thermostat, and the 115 volt to 24 volt transformer gets powered up. (In order for the thermostat to receive the L1, the skillet has to be in the fully down position to make the bottom mico switch and then it goes through the high limit which should be closed.) In addition, the R1 relay gets L1 supplied to terminal 12 and the combustion blower gets supplied L2.

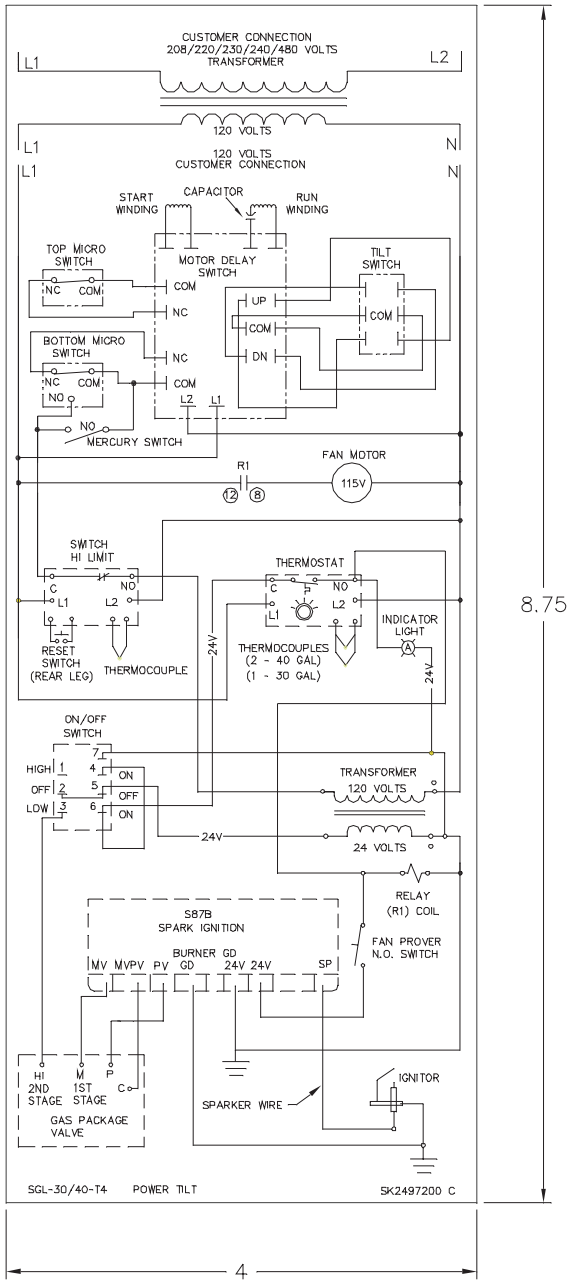
2 L1 from the secondary side of the transformer (24vac) is sent to the power switch. L2 from the secondary side is supplied to the indicator light, the power switch light, the R1 relay coil, and the ignition control module.

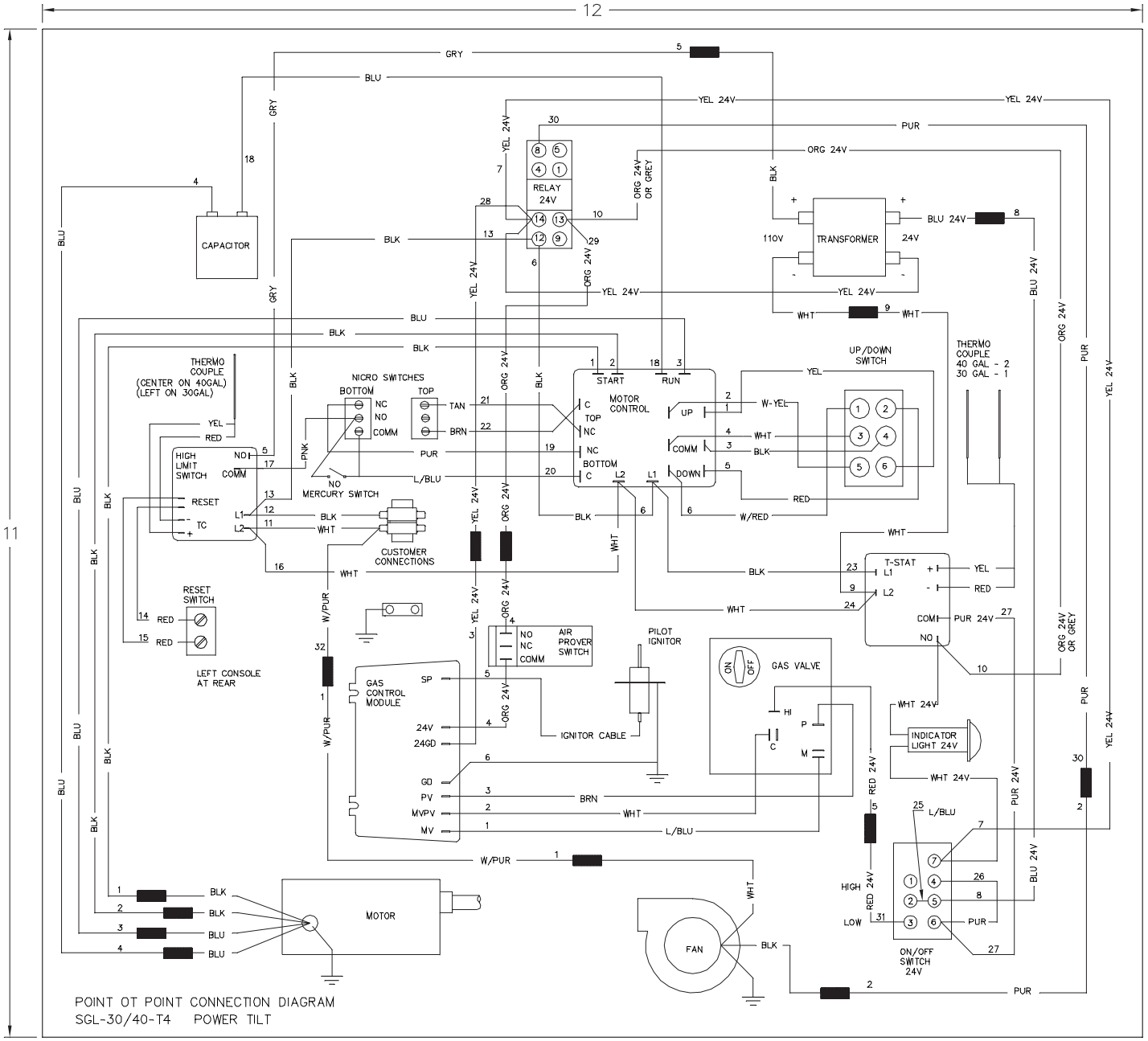
3 The power switch can be thrown to get high or low fire. This is what happens when high fire is selected. L1 (24vac) leaves the power switch and goes to the thermostat. The thermostat compares the set temp to actual. The thermostat is closed and power to sent to R1 relay coil energizing it. R1 closes and now completes the circuit for the combustion fan to start. It also sends 24vac to the combustion fan prover. Since the combustion blower is now running, the fan prover should close allowing this 24vac to continue to the ignition control module. The high coil of the gas valve gets supplied with L1 (24vac) from the switch. Whenever the thermostat is closed, the indicator light will be illuminated.

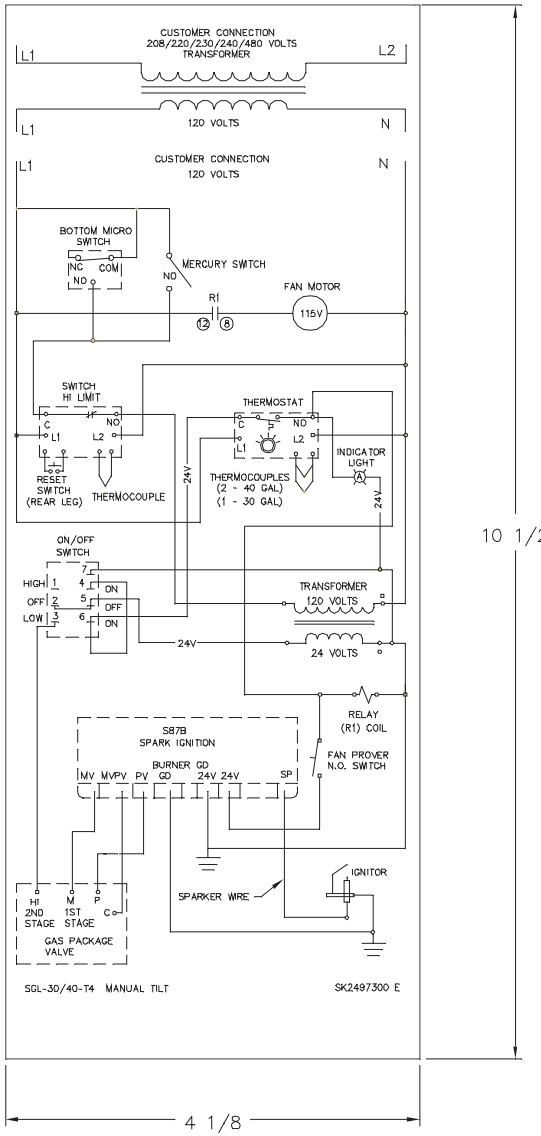
4 Now the ignition control module sends power to pilot valve and starts sparking at the electrode. The pilot gas should light, proving flame back to the control module which now sends voltage to the main coil of the gas valve which opens now supplying both high and main. NOTE: The gas ignition module and gas valve are the same ones used in 24CGA10's. If no pilot is detected after 90 seconds, the module will shut off for 5 to 6 minutes and re-try.

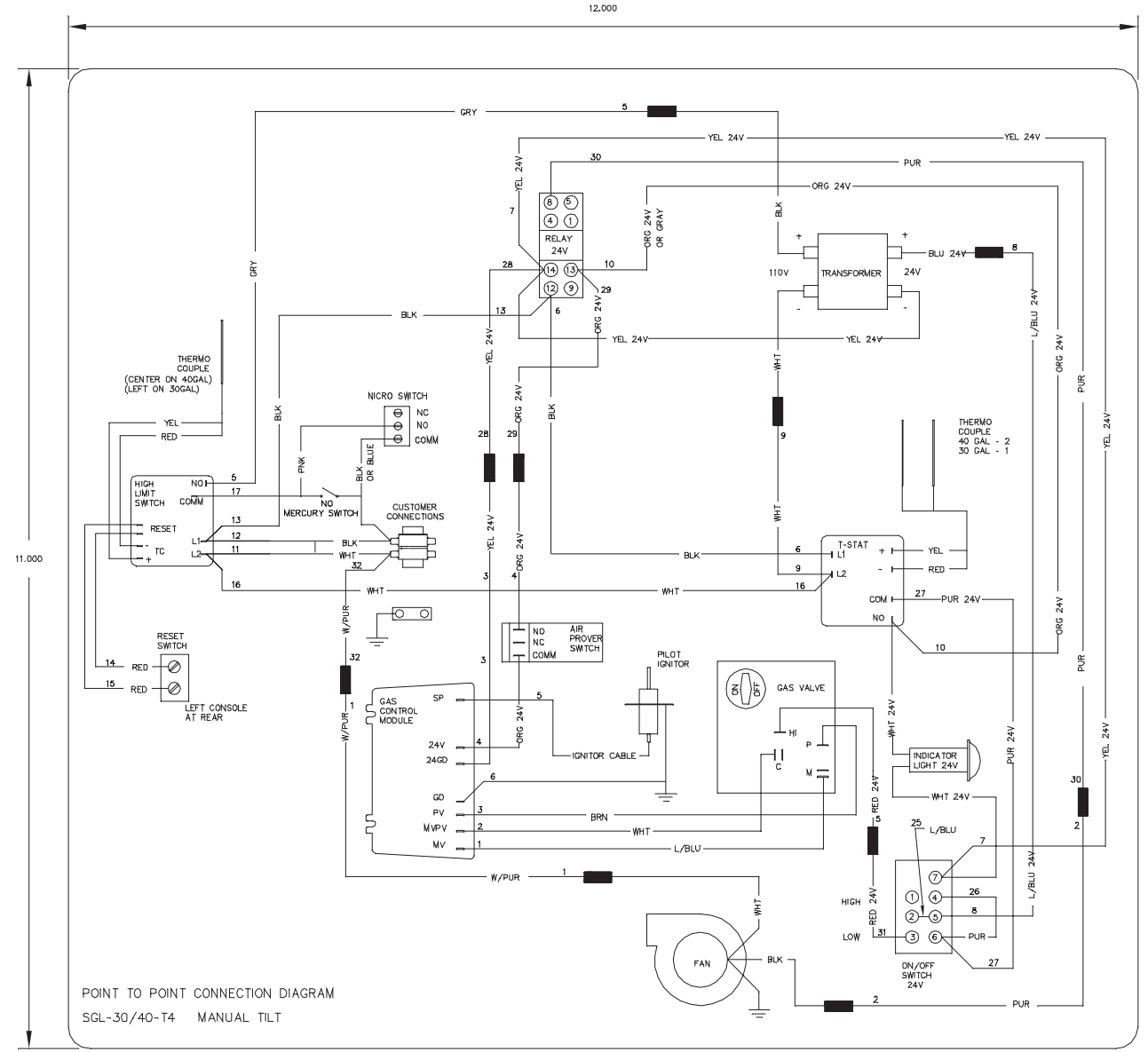
5 When the thermostat is satisfied, it opens denying power to the R1 relay coil which opens R1, shutting off the combustion fan. This opens the prover switch which denies voltage to the ignition control module.

6 If the skillet should tilted while in operation, the micro switch would open denying voltage to the transformer, killing all 24volt circuits, shutting off the skillet. The same thing happens if the High limit switch opens.


CUSTOMER CONNECTION
208/220/230/240/480 VOLTS
TRANSFORMER
L1
L2
120 VOLTS
120 VOLTS
CUSTOMER CONNECTION
N
START WINDING
CAPACITOR
RUN WINDING
TOP MICRO SWITCH
MOTOR DELAY SWITCH
TILT SWITCH
BOTTOM MICRO SWITCH
MERCURY SWITCH
FAN MOTOR
115V
SWITCH HI LIMIT
THERMOSTAT
RESET SWITCH (REAR LEG)
THERMOCOUPLE
THERMOCOUPLES (2 - 40 GAL) (1 - 30 GAL)
INDICATOR LIGHT
ON/OFF SWITCH
HIGH
OFF
LOW
TRANSFORMER 120 VOLTS
24V
24 VOLTS
RELAY (R1) COIL
S87B SPARK IGNITION
BURNER GD
MV MVPV PV GD 24V 24V SP
FAN PROVER N.O. SWITCH
HI 2ND STAGE
M 1ST STAGE
P
C
GAS PACKAGE VALVE
SPARKER WIRE
IGNITOR
SGL-30/40-T4 POWER TILT
SK2497200 C
8.75
4


12
11
CAPACITOR
RELAY 24V
TRANSFORMER
110V
24V
THERMO COUPLE (CENTER ON 40GAL) (LEFT ON 30GAL)
NICRO SWITCHES
BOTTOM
TOP
MERCURY SWITCH
HIGH LIMIT SWITCH
RESET
TC
CUSTOMER CONNECTIONS
MOTOR CONTROL
START
RUN
UP/DOWN SWITCH
THERMO COUPLE 40 GAL - 2 30 GAL - 1
T-STAT
RESET SWITCH
LEFT CONSOLE AT REAR
AIR PROVER SWITCH
PILOT IGNITOR
IGNITOR CABLE
GAS CONTROL MODULE
GAS VALVE
INDICATOR LIGHT 24V
ON/OFF SWITCH 24V
MOTOR
FAN
POINT OT POINT CONNECTION DIAGRAM
SGL-30/40-T4 POWER TILT


CUSTOMER CONNECTION
208/220/230/240/480 VOLTS
TRANSFORMER
L1
L2
120 VOLTS
N
CUSTOMER CONNECTION
120 VOLTS
BOTTOM MICRO SWITCH
NC
COM
NO
MERCURY SWITCH
R1
FAN MOTOR
115V
SWITCH HI LIMIT
THERMOSTAT
INDICATOR LIGHT
RESET SWITCH (REAR LEG)
THERMOCOUPLE
THERMOCOUPLES (2 - 40 GAL) (1 - 30 GAL)
24V
ON/OFF SWITCH
HIGH
OFF
LOW
TRANSFORMER 120 VOLTS
24 VOLTS
RELAY (R1) COIL
S87B SPARK IGNITION
BURNER GD
MV MVPV PV GD 24V 24V SP
FAN PROVER N.O. SWITCH
IGNITOR
SPARKER WIRE
HI 2ND STAGE
M 1ST STAGE
P
C
GAS PACKAGE VALVE
SGL-30/40-T4 MANUAL TILT
SK2497300 E
10 1/2
4 1/8


12.000
11.000
GRY
YEL 24V
PUR
ORG 24V
BLK
RELAY 24V
TRANSFORMER
110V
24V
BLU 24V
L/BLU 24V
THERMO COUPLE (CENTER ON 40GAL) (LEFT ON 30GAL)
YEL
RED
NICRO SWITCH
NC
NO
COMM
HIGH LIMIT SWITCH
RESET
TC
MERCURY SWITCH
CUSTOMER CONNECTIONS
THERMO COUPLE 40 GAL - 2 30 GAL - 1
T-STAT
L1
L2
COM
PUR 24V
WHT
W/PUR
RESET SWITCH
LEFT CONSOLE AT REAR
AIR PROVER SWITCH
PILOT IGNITOR
GAS VALVE
GAS CONTROL MODULE
SP
24V
24GD
GD
PV
MVPV
MV
IGNITOR CABLE
BRN
L/BLU
INDICATOR LIGHT 24V
WHT 24V
RED 24V
FAN
HIGH
LOW
ON/OFF SWITCH 24V
POINT TO POINT CONNECTION DIAGRAM
SGL-30/40-T4 MANUAL TILT

Cleveland

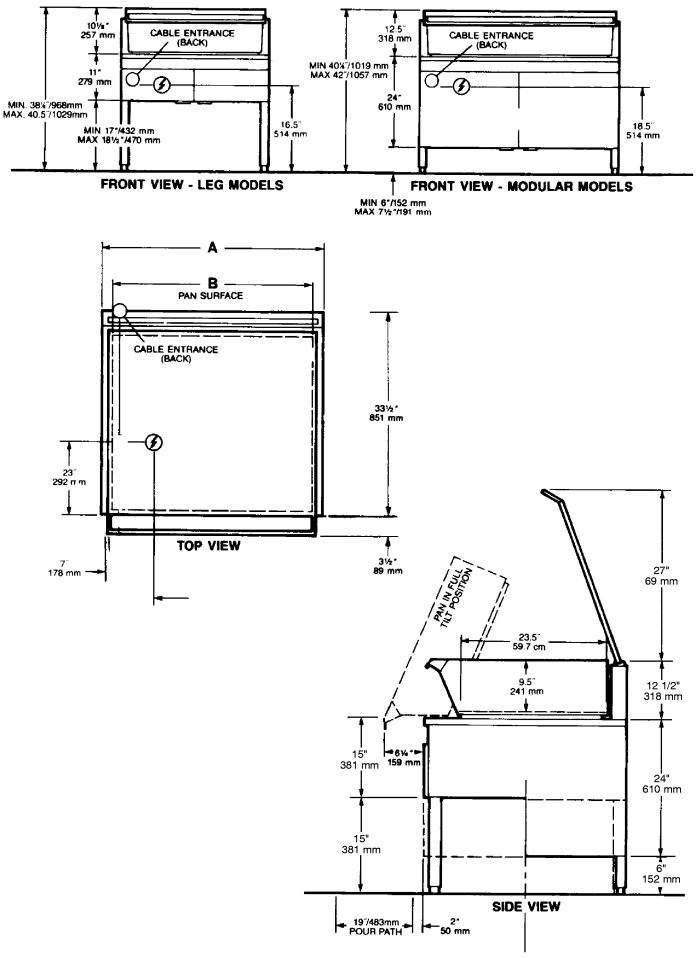
Tilting Skillets

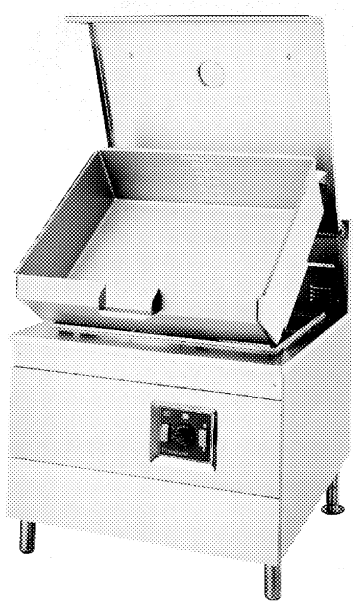
ELECTRIC TILTING OPEN BASE AND MODULAR SKILLETS

MODELS: ☐ SEL-30-TR ☐ SEM-30-TR
☐ SEL-40-TR ☐ SEM-40-TR

ITEM NUMBER _____

JOB NAME / NUMBER _____





Modular Cabinet Base Shown

SHORT FORM SPECIFICATION

Shall be CLEVELAND, Tilting Skillet; Model SE - ____ - TR ____ KW, ____ Volts holding no less than ____ Gallons; Complete with thermostatic and Safety Controls; Gallon Markings; Stainless Steel Clad; 5/8" Cooking Surface; Power Tilt; Spring Assist Cover with adjustable Vent. All Stainless Steel Construction. No Clearances Required.

MODEL	CAPACITY		DIMENSIONS				LOADING CHART								SERVICE CONNECTION
Basic No.	U.S. Gallons	Litres	A		B		Total kw. Load	3-Phase – 240V			3 Phase – 208V			Single Phase	
			in.	mm	in.	mm		X	Y	Z	X	Y	Z	240V	208V
SEL-30-TR SEM-30-TR	30	115	36	914	32	813	14.4	35	35	35	40	40	40	60	70
SEL-40-TR SEM-40-TR	40	150	48	1219	44	1118	18.0	43.5	43.5	43.5	50.00	50.0	50.0	75.0	87.0

Electric direct connection 3 wire nominal line

INSTALLATION NOTES

COMBUSTIBLE WALL CLEARANCES	ALL SIDES	
	in.	mm
	1	25

Cleveland Range reserves right of design improvement or modification, as warranted.

Cleveland Range Inc.
Ph: 1-216-481-4900 **Fx**: 1-216-481-3782
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Visit our Web Site at **www.clevelandrange.com**

CLEVELAND RANGE SEL-R
SEQUENCE OF OPERATIONS

When using these instructions refer to the SEL-R wiring schematic.

1. Supply Voltage is sent to the normally open contacts of the element contactor

2. Supply Voltage is sent through the 1.5 amp fuse to the power switch

3. With the power switch in the on position, supply voltage is sent to the primary of the main transformer.

4. 120 VAC is sent from pins 1 and 2 on the secondary of the main transformer through the 1 amp fuse to the tilt interrupter switch.
   - If the skillet is in the down position 115 VAC is sent from the interrupter switch through the high limit to pin 9 on the thermostat.

5. When the thermostat is calling for heat 115 VAC is sent to the coil of the element contactor.
   - The normally open contacts of the element contactor close sending supply voltage to the elements.
   - The elements will heat the skillet until the thermostat is satisfied.

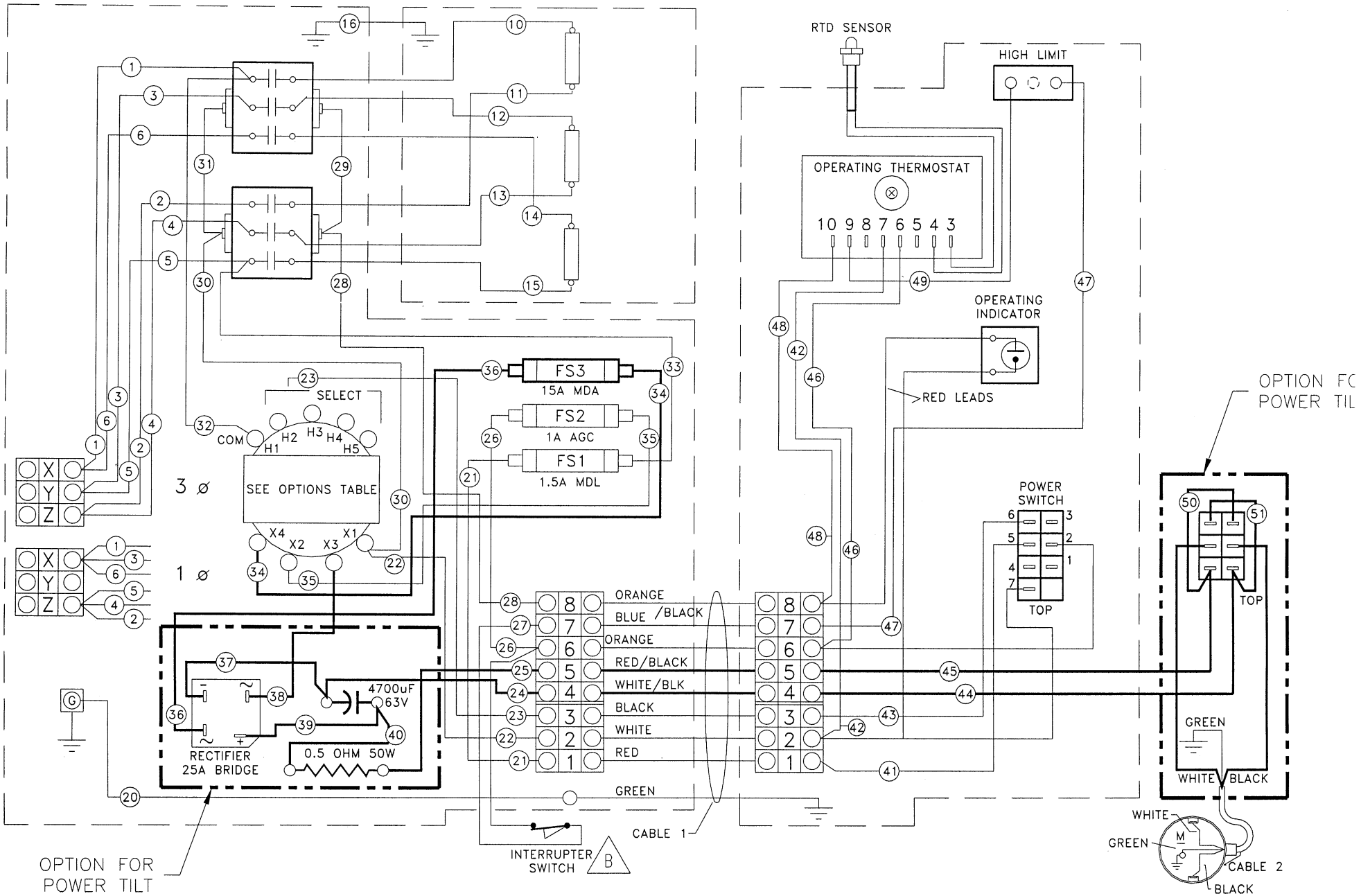
6. When the thermostat is satisfied 115VAC is removed from pin 10 and the heat circuit is de-energized.

7. If the skillet is equipped with the optional Power Tilt, 24 VAC is sent from terminals 3 and 4 of the secondary of the main transformer through the 15-amp fuse to the bridge rectifier

8. The AC current is rectified to DC voltage that is then filtered by the capacitor and resistor and sent to the tilt switch.

9. When the switch is in the up position the DC motor is energized and the actuator extends.

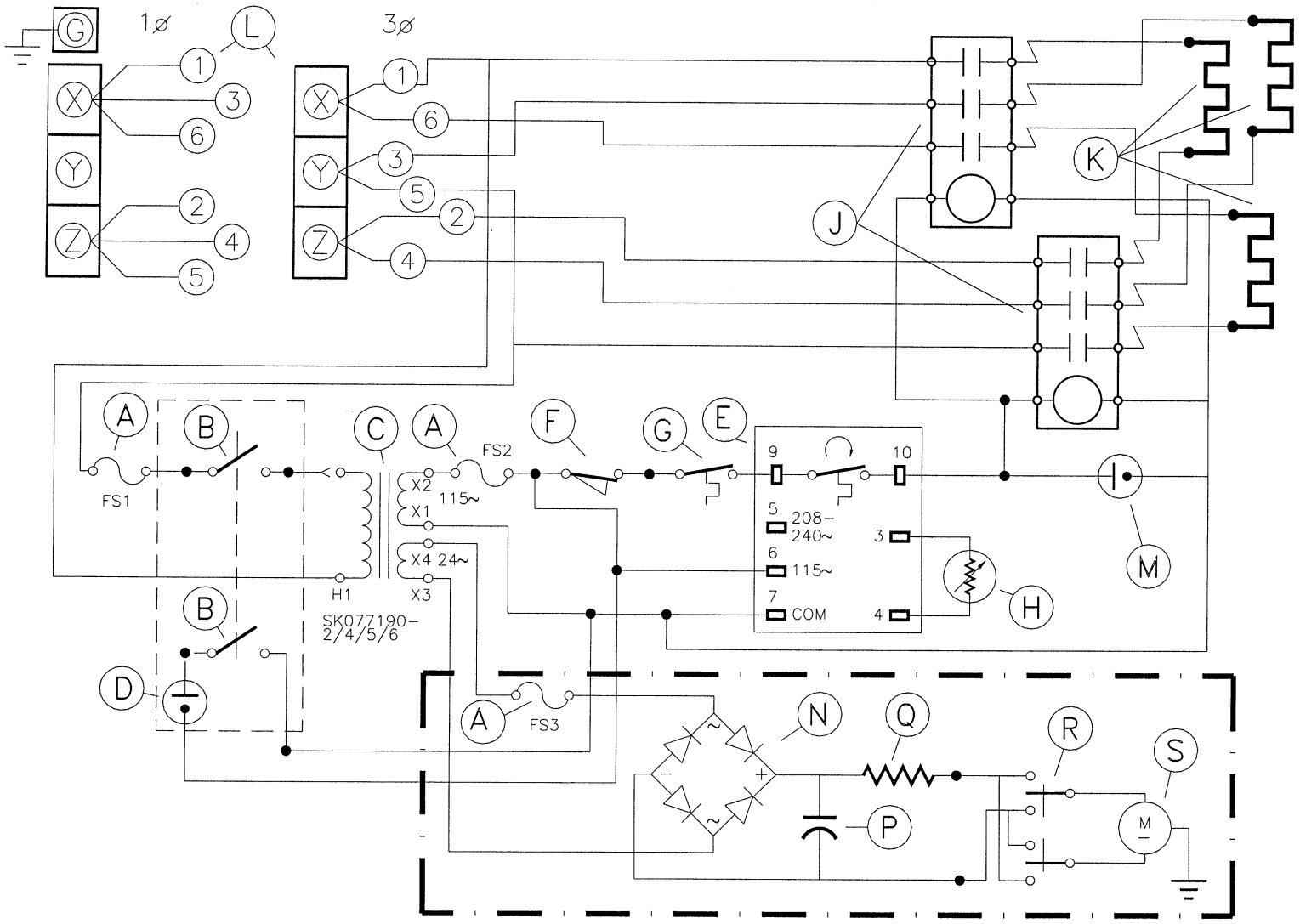
10. When the switch is in the down position the polarity is reversed and the motor is energized to retract the actuator.



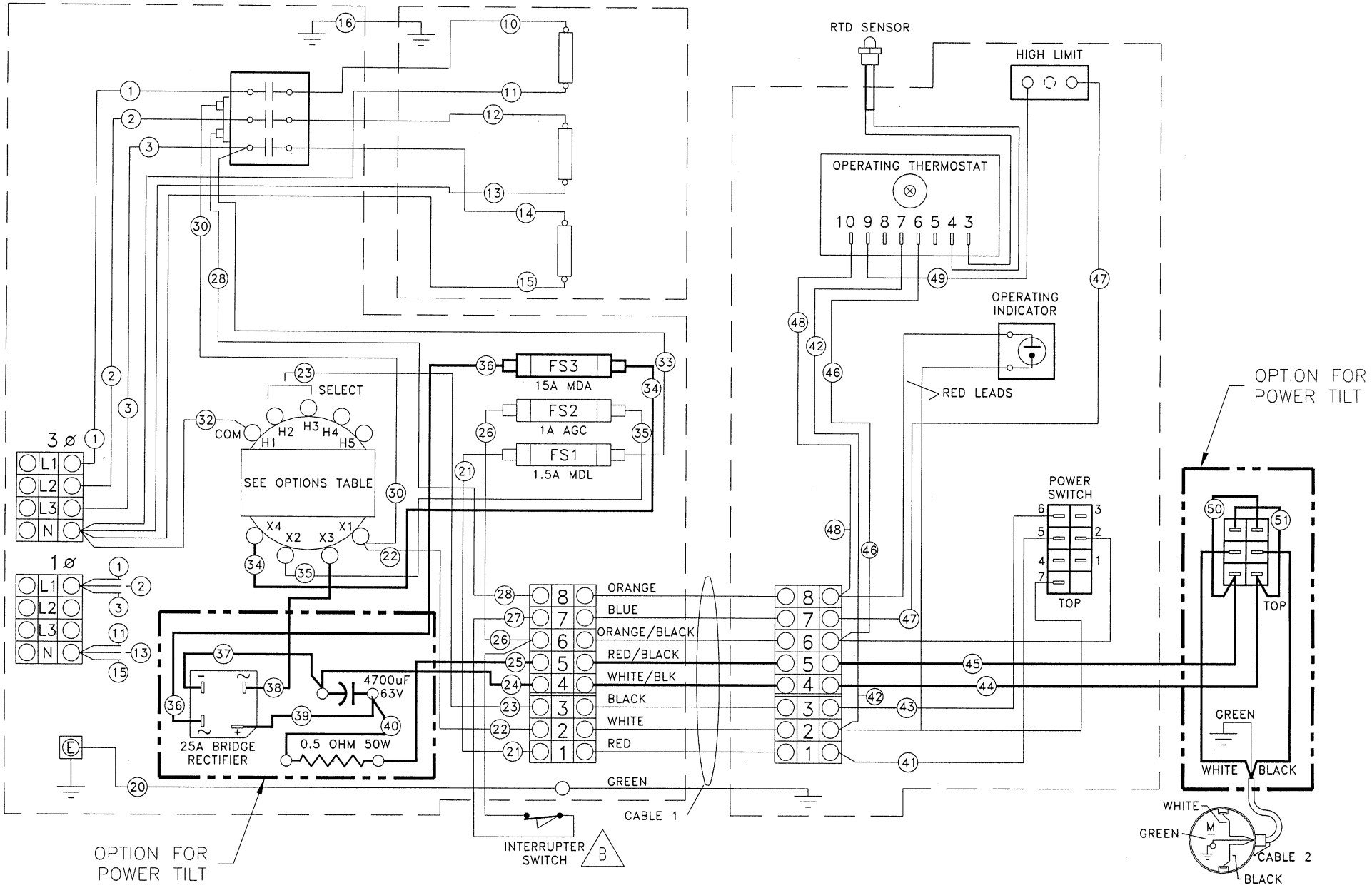
MODEL F30,40E-L,MR, SEL30,40TR 208/240/380/415/480V DELTA

SK90123-4

(208/240/380/415/480V 1ø/3ø)



A– FUSE
B– POWER SWITCH
C– TRANSFORMER
D– PILOT–RED
E– ELECTRONIC THERMOSTAT
F– INTERRUPTER SWITCH
G– HIGH LIMIT SWITCH
H– RTD SENSOR
J– CONTACTOR
K– ELEMENT
L– TERMINAL BLOCK
M– PILOT–YELLOW
N– RECTIFIER
P– CAPACITOR
Q– RESISTOR
R– TILT CONTROL
S– ACTUATOR
– – – POWER TILT ONLY

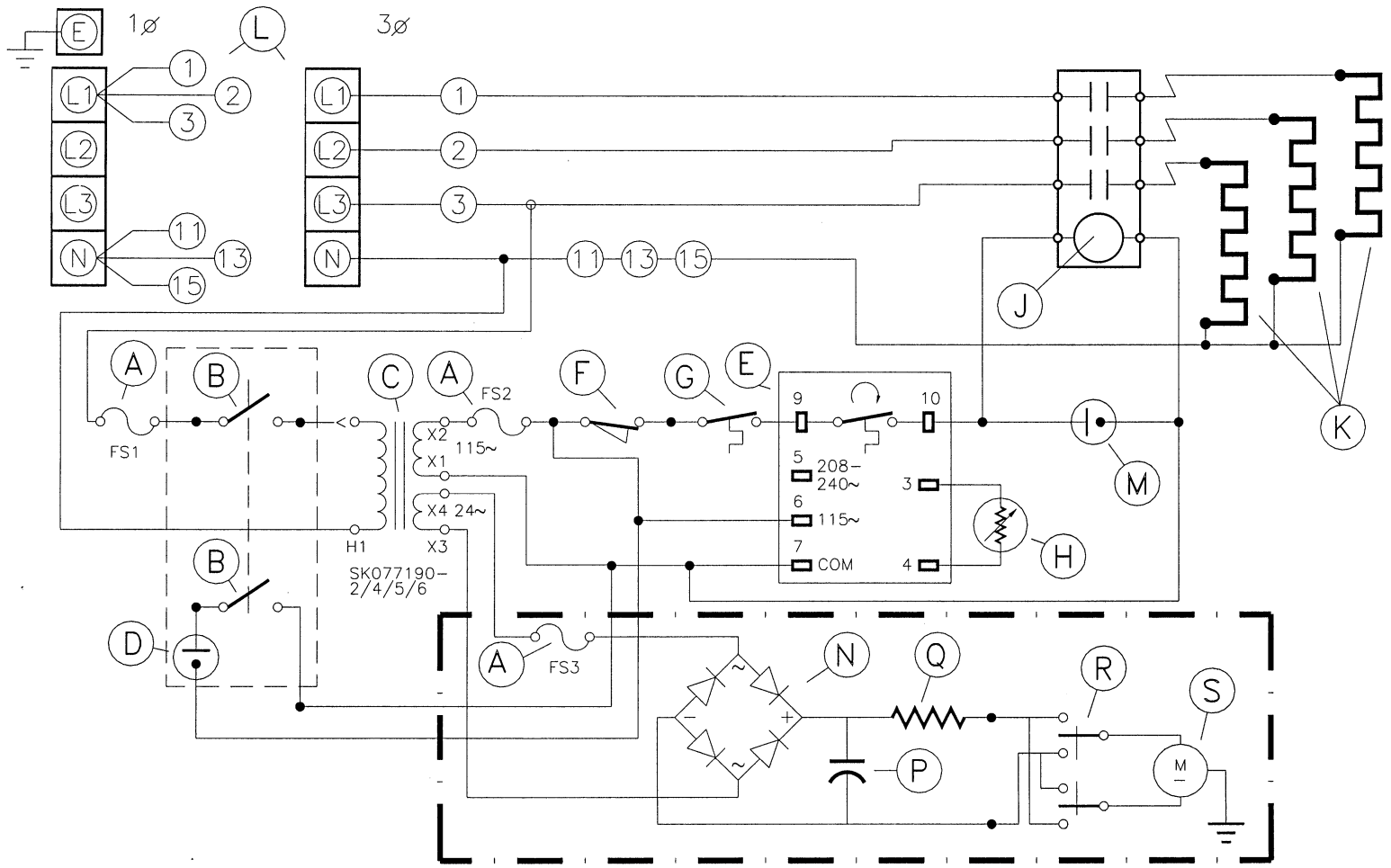


MODEL F30,40E-L,MR, SEL30,40TR 220/240V 3N~

SK90123-3

(220/380, 240/415 1[illegible] /3N~)

OPTIONS TABLE



A– FUSE
B– POWER SWITCH
C– TRANSFORMER
D– PILOT–RED
E– ELECTRONIC THERMOSTAT
F– INTERRUPTER SWITCH
G– HIGH LIMIT SWITCH
H– RTD SENSOR
J– CONTACTOR
K– ELEMENT
L– TERMINAL BLOCK
M– PILOT–YELLOW
N– RECTIFIER
P– CAPACITOR
Q– RESISTOR
R– TILT CONTROL
S– ACTUATOR
– - – POWER TILT ONLY

Cleveland

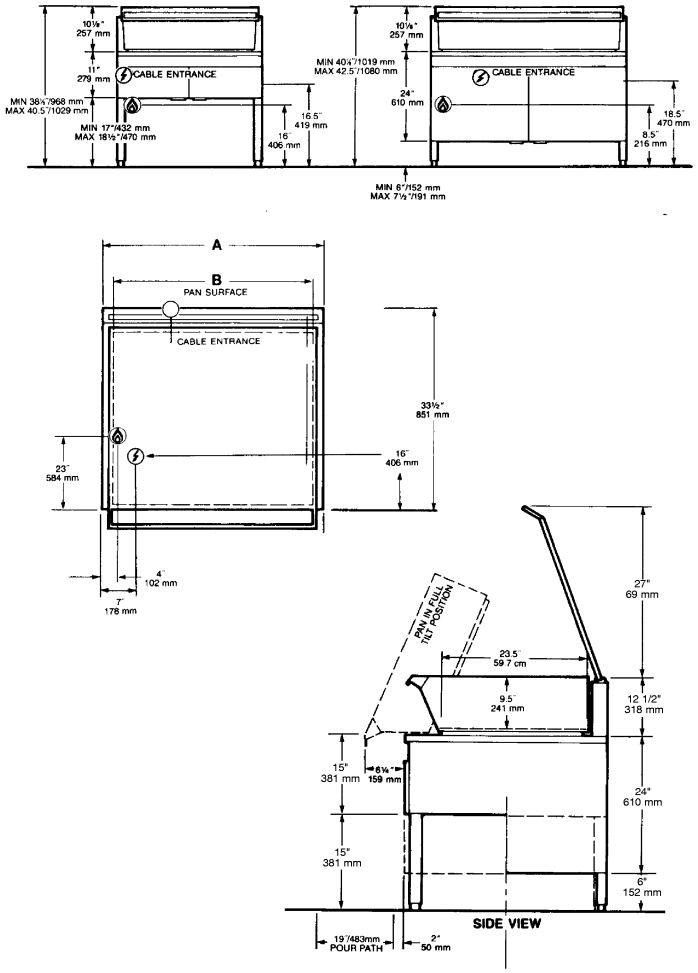
Tilting Skillets

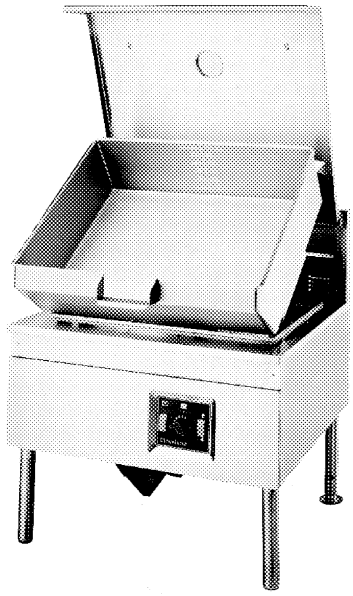
GAS TILTING OPEN BASE AND MODULAR SKILLETS

MODELS: ☐ SGL-30-TR ☐ SGM-30-TR
☐ SGL-40-TR ☐ SGM-40-TR

ITEM NUMBER _____

JOB NAME / NUMBER _____





Open Base Model Shown

SHORT FORM SPECIFICATION

Shall be CLEVELAND, Tilting Skillet; Model SG ____ - ____- TR gas (TYPE ___) - holding no less than ____ Gallons; complete with Thermostatic Safety and Gas Controls; Gallon Markings; Stainless Steel Clad 5/8" Cooking Surface; Power Tilt; Spring Assist Cover with adjustable Vent. All Stainless Steel Construction.

MODEL	CAPACITY		INPUT CHART		DIMENSIONS				INSTALLATION NOTES			SERVICE CONNECTIONS	
			NATURAL GAS		A		B						
Basic No.	U.S. Gallons	Litres	B.T.U. Inputs Per Hour	Gas Inlet	in.	mm	in.	mm					
SGL-30-TR SGM-30-TR	30	115	91,000	One ¾" N.P.T.	36	914	32	813	COMBUSTIBLE WALL CLEARANCES For reduced clearances refer to CAN/CGA-B149 Installation Code or National Fuel Gas Code GAS PRESSURE REQUIRED Normal supply pressures	SIDES 1" (25mm) BACK 6" (152mm) NATURAL 7" WC PROPANE 11" WC	GAS INPUT RATINGS - Ratings shown are for natural gas installations up to 2000 feet (610m) above sea level. B.T.U. input ratings must be derated for high altitude installations. Specify altitude of project if over 2000 feet (610 meters). For other gases specify type, calorific value, specific gravity and pressure at appliance. Note: When ordering specify type of gas to be used.		Electrical connection – direct connection required – 1 phase grounded. 3.0 ampere.
SGL-40-TR SGM-40-TR	40	150	130,000	One ¾" N.P.T.	48	1219	44	1118					Gas connection – ¾" N.P.T.

Cleveland Range reserves right of design improvement or modification, as warranted.

Cleveland Range Inc.
Ph: 1-216-481-4900 **Fx**: 1-216-481-3782
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Visit our Web Site at **www.clevelandrange.com**

SGL / SGM - R

SEQUENCE OF OPERATION

* TURN POWER SWITCH ON

(INLINE FUSE TO SWITCH IS 2.5 AMP SLOW BLOW)

A. GREEN *POWER* LIGHT IS ILLUMINATED

B. 120 V.A.C. IS SUPPLIED TO ELECTRONIC "T" STAT

1. THRU TERMINALS 6 & 7

C. 120 V.A.C. IS SUPPLIED TO THE PRIMARY SIDE OF THE TRANSFORMER

* TRANSFORMER STEPS 120 V.A.C. DOWN TO 24 V.A.C.

A. 24 V.A.C. PASSES THRU TO BRIDGE RECTIFIER

1. INLINE FUSE IS 15 AMP SLOW BLOW

B. RECTIFIER CHANGES 24 V.A.C. TO 24 V.D.C.

1. SUPPLYING 24 V.D.C TO START CAPACITOR

C. CAPACITOR 24 V.D.C. PASSES THRU A RESISTOR

1. LIMITS VOLTAGE TO MOTOR ON HIGH CURRENT DRAW

D. 24 V.D.C. IS NOW APPLIED TO TILT SWITCH

1. PRESS SWITCH UP

a. MOTOR IS ENERGIZED RAISING PAN

2. PRESS SWITCH DOWN

b. MOTOR IS ENERGIZED LOWERING PAN

** TRANSFORMER STEPS 120 V.A.C. DOWN TO 24 V.A.C.

A. 24 V.A.C. PASSES THRU TO TILT INTERRUPT SWITCH

1. LINE FUSE IS 1.25 AMP SLOW BLOW

B. 24 V.A.C. PASSES THRU TILT INTERRUPT SWITCH

1. NORMALLY CLOSED / PAN DOWN

C. 24 V.A.C. PASSES THRU TO HIGH LIMIT

1. NORMALLY CLOSED

2. OPENS AT 450 DEGREES

D. 24 V.A.C. PASSES THRU TO ELECTRONIC "T" STAT

1. THRU TERMINAL #9

E. ELECTRONIC "T" STAT

1. TURN KNOB TO DESIRED TEMP. (RESISTANCE)
2. RTD SENSOR COMPARES (SEE RESISTANCE CHART) THRU TERMINALS 3 & 4
3. "T" STAT RESISTANCE > RTD RESISTANCE
   a. INTERNAL SWITCH CLOSES SENDING 24 V.A.C. THRU TERM #10 TO IGNITOR MODULE TERM # 2
4. "T" STAT RESISTANCE < RTD RESISTANCE
   a. INTERNAL SWITCH OPENS DROPPING 24 V.A.C. THRU TERM #10 TO IGNITOR MODULE TERM # 2

F. IGNITION MODULE

1. POWER TO TERM # 2 COMPLETES IGNITION CIRCUIT TO TERM #3
   a. OPENS THE GAS SOLENOID
   b. SENDS MAX. VOLTAGE TO THE IGNITOR
   c. CREATES SPARK AND LIGHTS BURNERS

F. THE IGNITOR SENSOR

1. DETECTS FLAME BY SENSING .2 MICRO AMPS BACK TO THE MODULE THROUGH GROUND AND #4 SENSE TERM KEEPING THE GAS SOLENOID OPEN (4 SEC. TRIAL FOR 3 TRIES)
2. IF NO FLAME IS DETECTED THE MODULE WILL TURN OFF THE GAS SOLENOID

G. HEATING CONTINUES UNTIL "T" STAT = RTD SENSOR

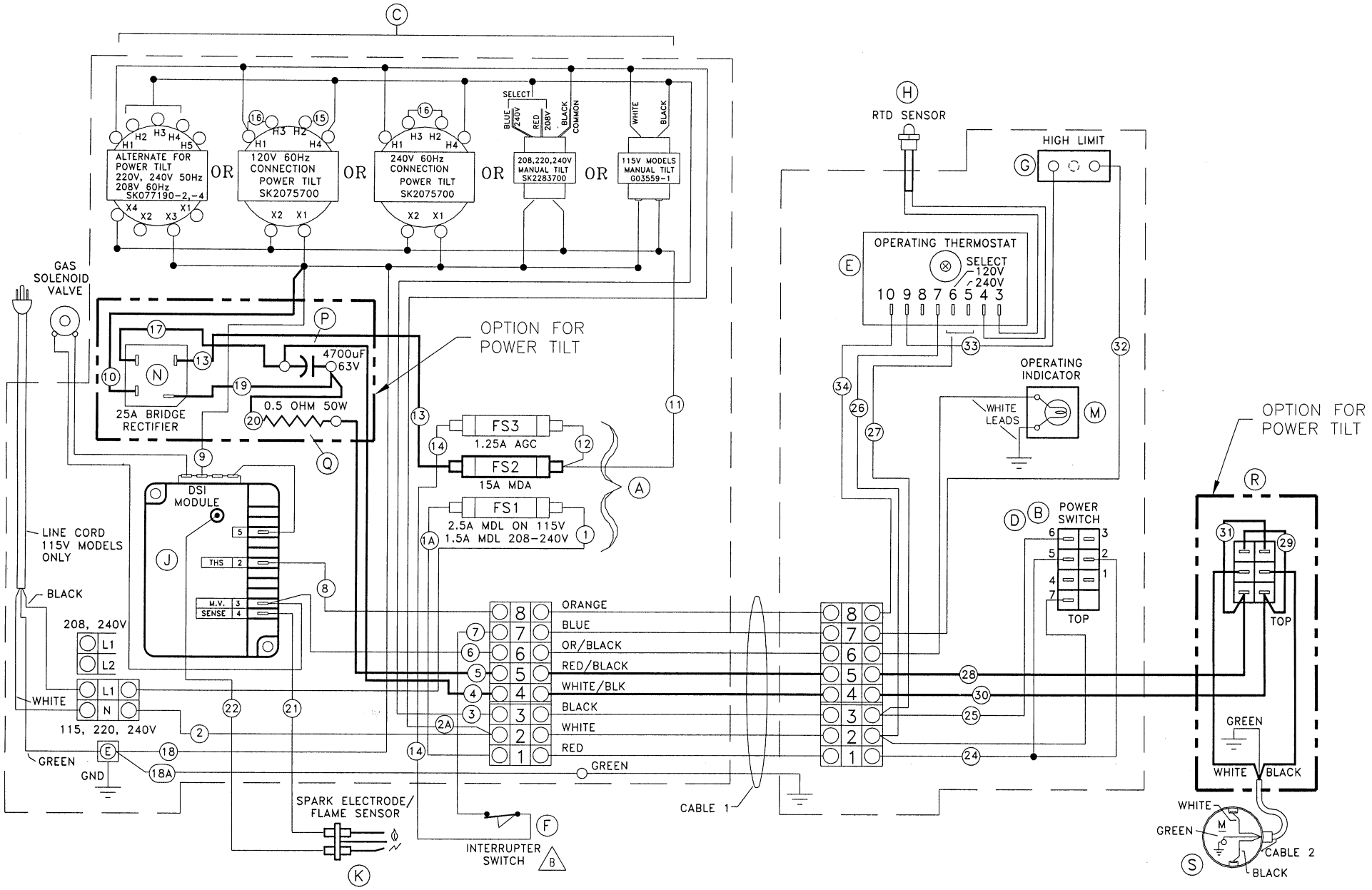
1. EQUAL RESISTANCE DROPS POWER TO IGNITION MODULE (UNTIL PAN COOLS)

*** PROBLEMS AND FIXES

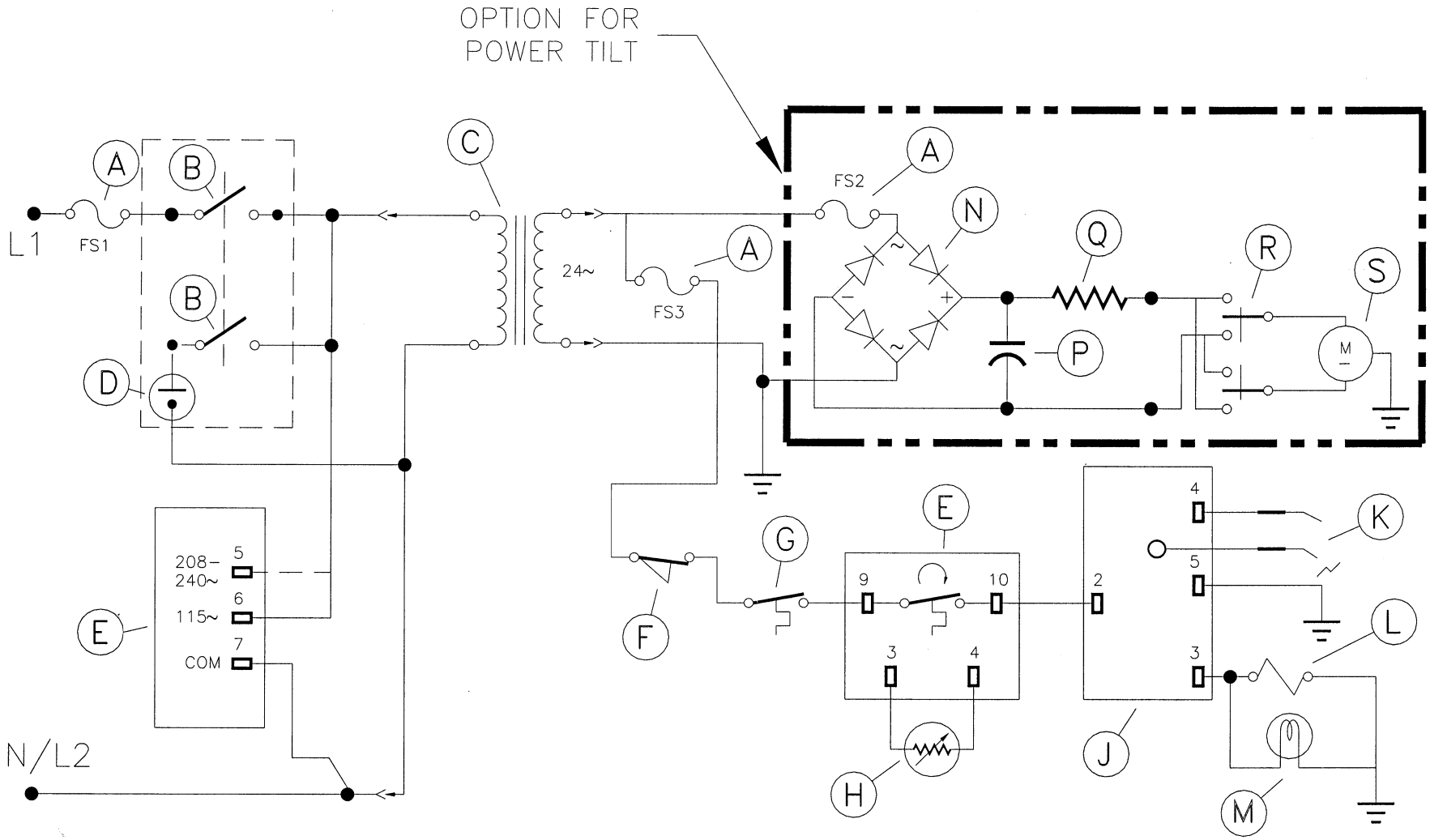
A. TEMPERATURE PROBLEMS
(BULLETINS 95-12 AND 95-4)

1. TEMPERATURE IS NOT CONTROLLABLE OR CONTROL CAN BE INTERMITTENT
   a. "T" STAT SHAFT KNOB JUMPS STOP
      1. INSTALL CK 149 KIT
      (NEW STOP- SHAFT-"T" STAT)
   b. RTD SENSOR INTERNALLY SHIFTED FROM TIP
      1. REPLACE RTD
2. NO IGNITION (UNITS WITH GALVALUM SQUARED BOTTOM BURNERS OR WITH SAME BURNERS AND ONE S/S BURNER UNDER IGNITOR - EARLY MODELS)
   a. HOLES IN BURNERS DO NOT LINE UP WITH IGNITOR AND FLAME SENSOR
      1. ORDER PROPER S/S BURNER KIT
3. SKILLET CALIBRATION
   a. FOR DETERMINING PROPER PAN TEMP.
      1. SEE CALIBRATION HAND OUT

SK90124-2



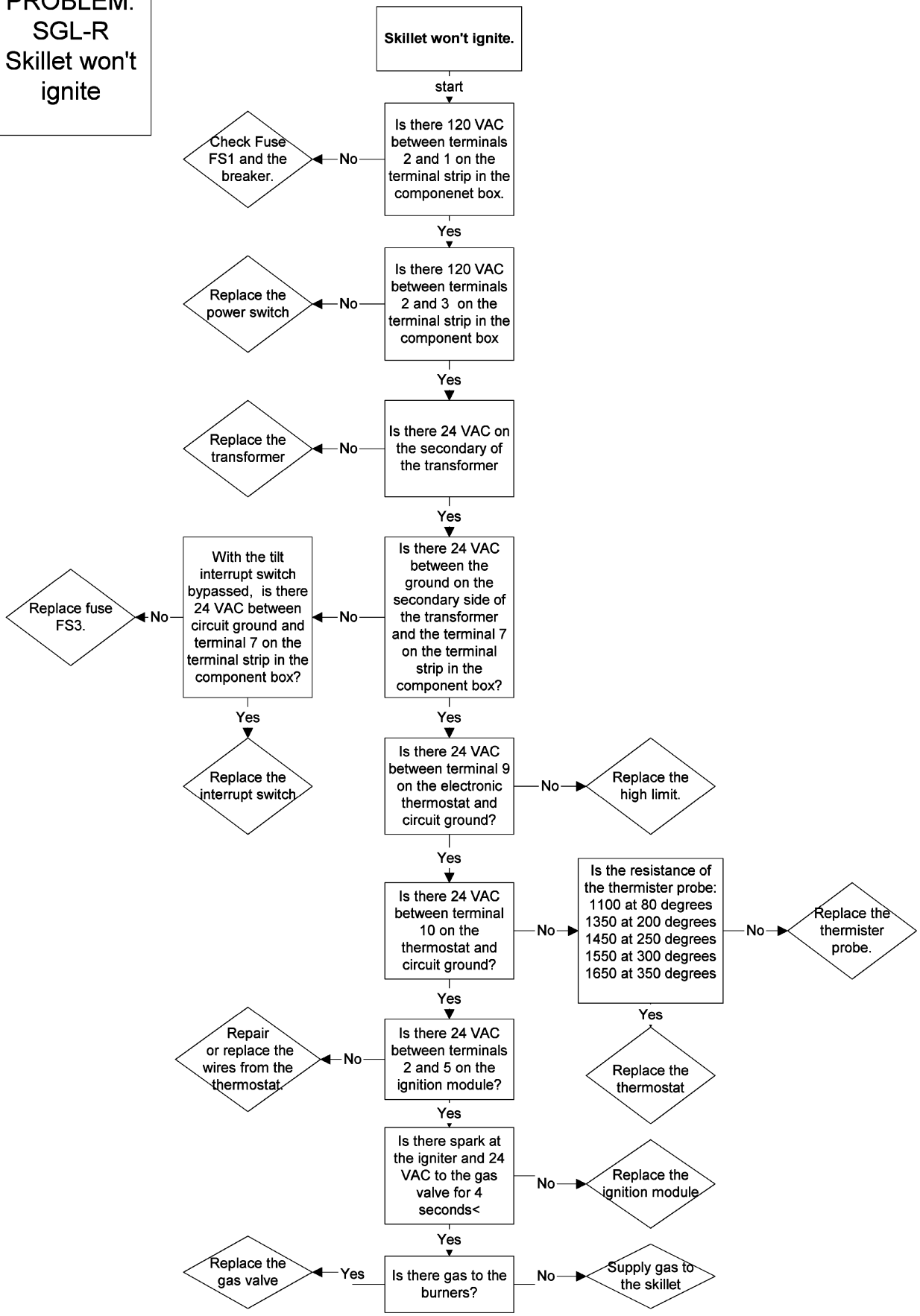
MODEL: F30,40 G-L,MR
SGL,M-30,40TR

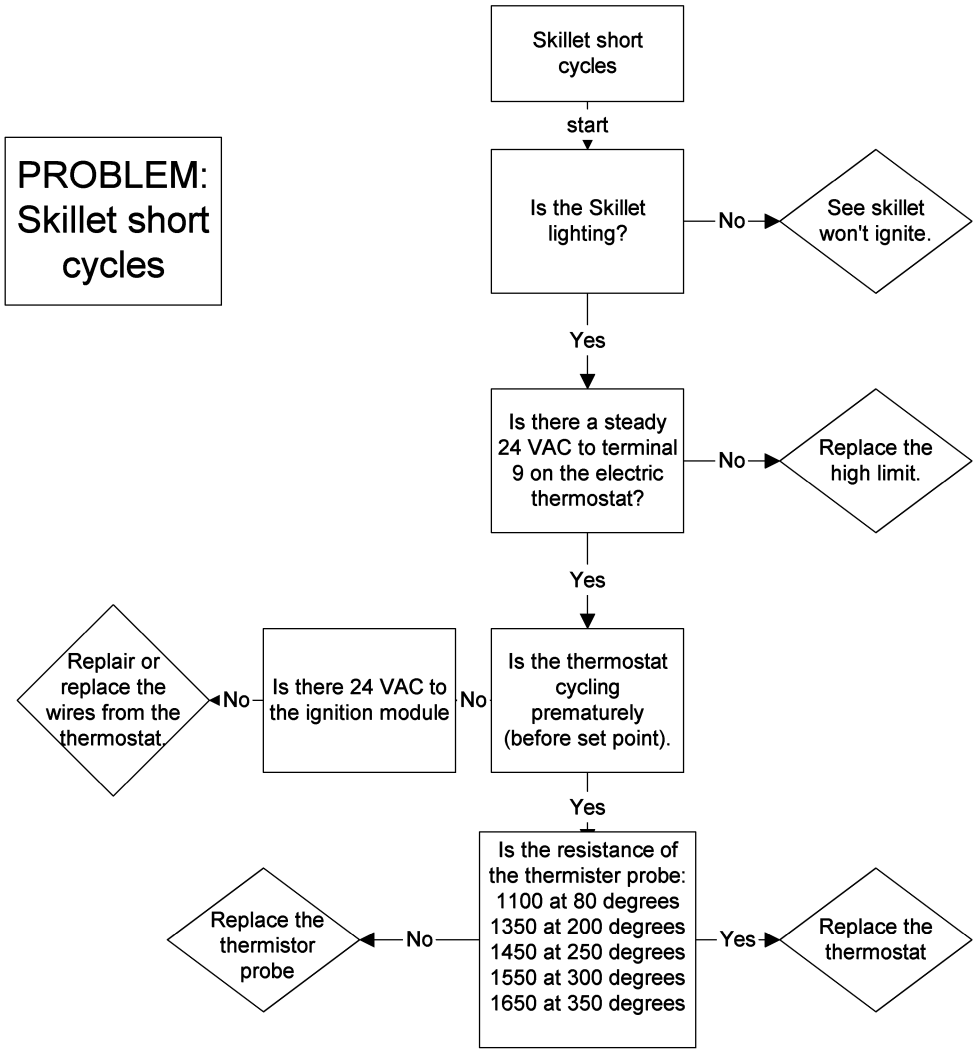


A– FUSE
B– POWER SWITCH
C– TRANSFORMER
D– PILOT–RED
E– ELECTRONIC THERMOSTAT
F– INTERRUPTER SWITCH
G– HIGH LIMIT SWITCH
H– RTD SENSOR
I– IGNITION MODULE

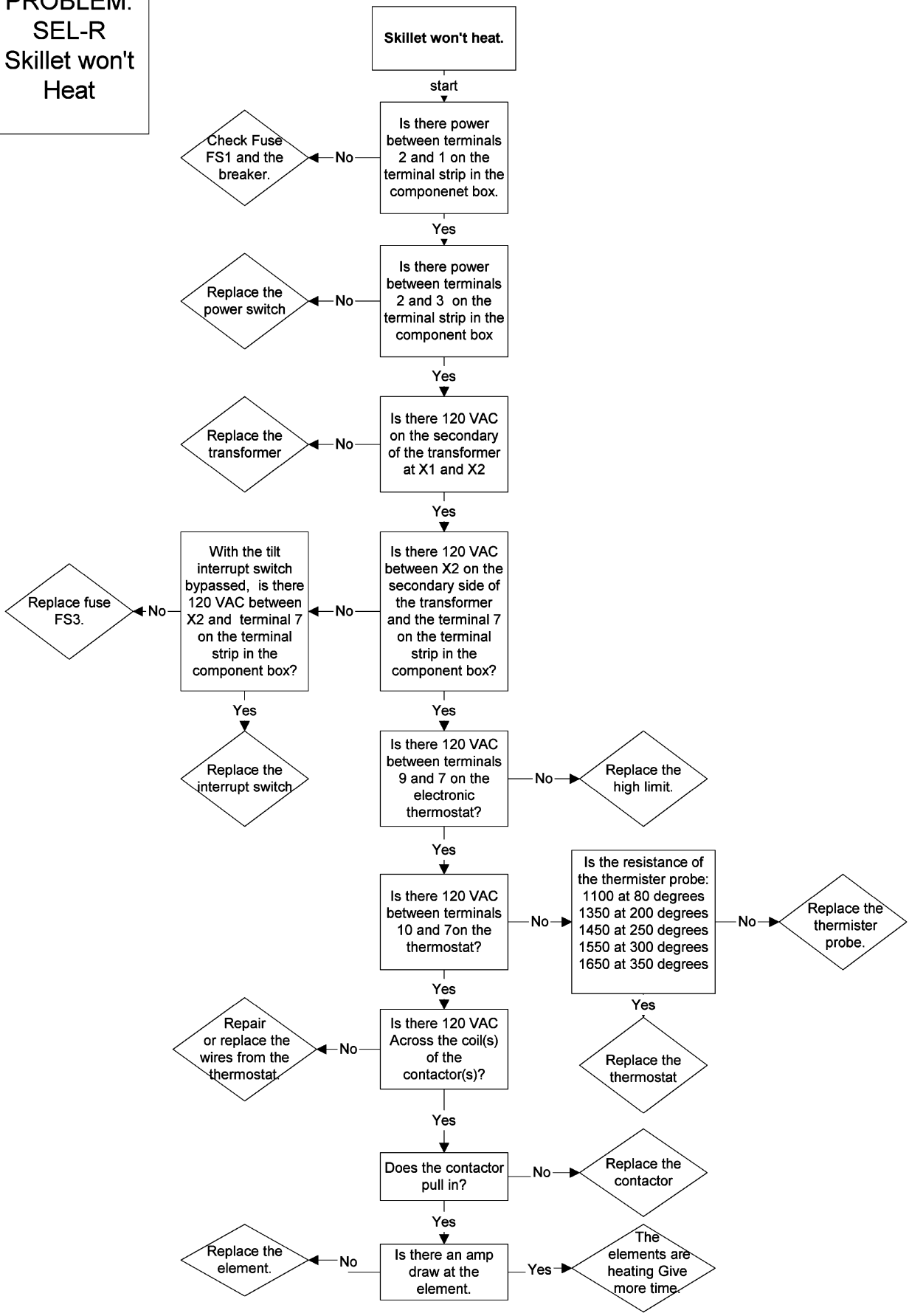
K– ELECTRODES
L– GAS BURNER SOLENOID
M– PILOT–YELLOW
N– RECTIFIER
P– CAPACITOR
Q– RESISTOR
R– TILT CONTROL
S– ACTUATOR

PROBLEM: SGL-R Skillet won't ignite


Skillet won't ignite.
start
Is there 120 VAC between terminals 2 and 1 on the terminal strip in the componenet box.
No
Check Fuse FS1 and the breaker.
Yes
Is there 120 VAC between terminals 2 and 3 on the terminal strip in the component box
No
Replace the power switch
Yes
Is there 24 VAC on the secondary of the transformer
No
Replace the transformer
Yes
Is there 24 VAC between the ground on the secondary side of the transformer and the terminal 7 on the terminal strip in the component box?
No
With the tilt interrupt switch bypassed, is there 24 VAC between circuit ground and terminal 7 on the terminal strip in the component box?
No
Replace fuse FS3.
Yes
Replace the interrupt switch
Yes
Is there 24 VAC between terminal 9 on the electronic thermostat and circuit ground?
No
Replace the high limit.
Yes
Is there 24 VAC between terminal 10 on the thermostat and circuit ground?
No
Is the resistance of the thermister probe: 1100 at 80 degrees 1350 at 200 degrees 1450 at 250 degrees 1550 at 300 degrees 1650 at 350 degrees
No
Replace the thermister probe.
Yes
Replace the thermostat
Yes
Is there 24 VAC between terminals 2 and 5 on the ignition module?
No
Repair or replace the wires from the thermostat.
Yes
Is there spark at the igniter and 24 VAC to the gas valve for 4 seconds<
No
Replace the ignition module
Yes
Is there gas to the burners?
No
Supply gas to the skillet
Yes
Replace the gas valve


PROBLEM: Skillet short cycles
Skillet short cycles
start
Is the Skillet lighting?
No
See skillet won't ignite.
Yes
Is there a steady 24 VAC to terminal 9 on the electric thermostat?
No
Replace the high limit.
Yes
Is the thermostat cycling prematurely (before set point).
No
Is there 24 VAC to the ignition module
No
Replair or replace the wires from the thermostat.
Yes
Is the resistance of the thermister probe:
1100 at 80 degrees
1350 at 200 degrees
1450 at 250 degrees
1550 at 300 degrees
1650 at 350 degrees
Yes
Replace the thermostat
No
Replace the thermistor probe

PROBLEM:
SEL-R
Skillet won't
Heat


Skillet won't heat.
start
Is there power between terminals 2 and 1 on the terminal strip in the componenet box.
No
Check Fuse FS1 and the breaker.
Yes
Is there power between terminals 2 and 3 on the terminal strip in the component box
No
Replace the power switch
Yes
Is there 120 VAC on the secondary of the transformer at X1 and X2
No
Replace the transformer
Yes
Is there 120 VAC between X2 on the secondary side of the transformer and the terminal 7 on the terminal strip in the component box?
No
With the tilt interrupt switch bypassed, is there 120 VAC between X2 and terminal 7 on the terminal strip in the component box?
No
Replace fuse FS3.
Yes
Replace the interrupt switch
Yes
Is there 120 VAC between terminals 9 and 7 on the electronic thermostat?
No
Replace the high limit.
Yes
Is there 120 VAC between terminals 10 and 7on the thermostat?
No
Is the resistance of the thermister probe:
1100 at 80 degrees
1350 at 200 degrees
1450 at 250 degrees
1550 at 300 degrees
1650 at 350 degrees
No
Replace the thermister probe.
Yes
Replace the thermostat
Yes
Is there 120 VAC Across the coil(s) of the contactor(s)?
No
Repair or replace the wires from the thermostat.
Yes
Does the contactor pull in?
No
Replace the contactor
Yes
Is there an amp draw at the element.
No
Replace the element.
Yes
The elements are heating Give more time.

PowerPan™ SERIES

35" RIM HEIGHT
TILTING SKILLET, ELECTRIC

MODELS: ☐ SEL-30-T1
☐ SEL-40-T1

ITEM NUMBER _____

JOB NAME / NUMBER _____

Cleveland Standard Features

- Available in 30 & 40 (115 & 150 liter) gallon open frame design models. Full capacity to bottom of pouring lip.
- High efficiency heating system with even heat distribution. 30 gallon models (115 liter) feature a 12 KW heating element and the 40 gallon models (150 liter) feature a 18 KW heating element.
- Open base design for easy cleaning and maintenance.
- 5/8" Stainless Steel Bead Blasted cooking surface prevents warping and keeps food from sticking.
- Durable 12 gauge, 304 Stainless Steel pan construction. 5/8" (16mm) mild steel clad bottom plus a 1/16" (1.6mm) Stainless Steel plate for even temperature distribution.
- Low 35" rim height for easy operation and cleaning.
- Splash Proof Controls and construction.
- Easy-to-turn manual hand tilt. Optional power tilt with manual override available.
- Gallon/Liter Markings and Vented Spring Assist Cover standard.
- Available with Optional 2" Tangent Draw-Off Valve.
- 10° Cooking Feature. Tilt unit up to 10° without the power being turned off.
- Adjustable, Electronic Thermostat accurately controls temperature from 100° to 450° F.
- Conforms to ASTM spec F1047-91.
- Standard Voltages 208-240, single and three phase.
- Spring-Assist Cover with full width handle and vent.

Options & Accessories

- ❒ Power Tilt with Manual Override (PT1)
- ❒ 2" (50 mm) Tangent Draw-Off Valve (TD2)
- ❒ Double or Single Pantry Faucet (SPS, DPS)
- ❒ Faucet Bracket (FBKT1)
- ❒ Pan Carrier (PCS)
- ❒ Vegetable Steamer Baskets (VS)
- ❒ Hot & Cold Water Pre-Rinse Spray Head with Hose (PRS-S)
- ❒ Poaching Pans (PP)
- ❒ High Wattage Option (HW)
  16KW on 30 gallons, 24KW on 40 gallons

Shown with optional Double Pantry Faucet and Bracket

Short Form Specifications

Shall be CLEVELAND, Tilting Skillet Model Number SEL-___-T1, electric (_____ KW, _____ Volts) holding no less than (____ gallons); Complete with thermostatic and Safety Controls, Gallon/Liter Markings, 5/8" Stainless Steel Clad Cooking Surface with Bead Blasted Finish, Easy to use Manual Hand Tilt, Spring Assist Cover with adjustable Vent, Adjustable Feet with Rear Flanged and Front Bullet Style, Gallon/Liter Markings and Splash Proof Controls

Cleveland Range Inc.
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Ph: 1-216-481-4900 **Fx**: 1-216-481-3782
Visit our Web Site at **www.clevelandrange.com**

DIMENSIONS

MODEL	A	B	C	D	F	G	APPROXIMATE SHIPPING WEIGHTS
SEL-30-T1	39 1/8"	24 1/2"	31 3/4"	12"	18 1/4"	5 3/4"	*SEL-30-T1*
	(994mm)	(623mm)	(807mm)	(305mm)	(464mm)	(146mm)	390 LBS. (178 KG.)
SEL-40-T1	51 1/8"	36 1/2"	43 3/4"	18"	24 1/4"	5 3/4"	*SEL-40-T1*
	(1299mm)	(928mm)	(1112mm)	(458mm)	(616mm)	(146mm)	410 LBS. (187 KG)

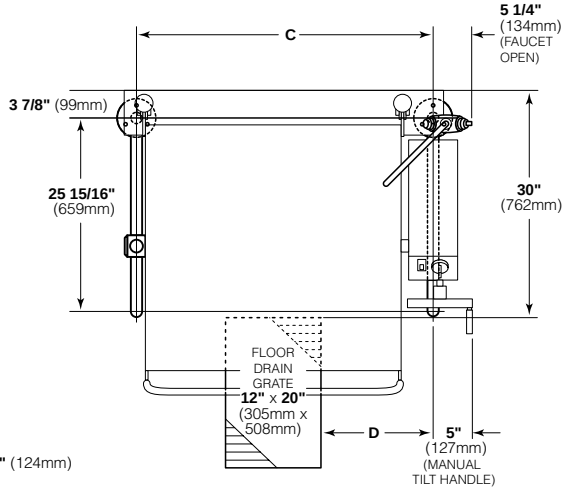
CAPACITIES

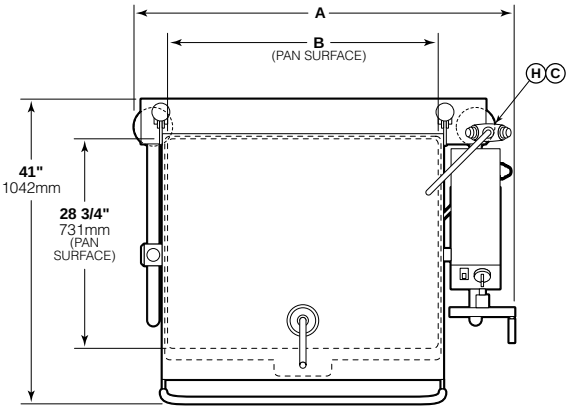
In 4 oz. servings. Other sizes may be calculated.
30 gallons / 115 Liters.....960
40 gallons / 150 Liters.....1280

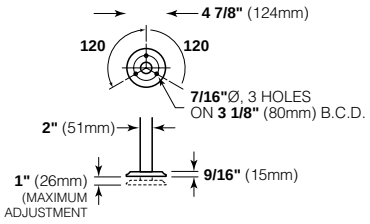
SPECIFICATIONS

ELECTRICAL SUPPLY								CLEARANCE
MODEL			208V AMPS		240V AMPS		480V AMPS	**RIGHT**: 3" (77mm) (manual tilt) 0" (power tilt) **LEFT**: 0", **REAR**: 0"
	WATTAGE	KW	3ph	1ph	3ph	1ph	3ph	
SEL-30-T1	Standard	12	33.3	57.7	28.9	50	14.5	
	High	16	44.4	77	38.6	66.7	19.3	APPROVALS
SEL-40-T1	Standard	18	50	86.5	43.4	75	21.6	UL ✓ CSA ✓
	High	24	66.7	NA	57.8	NA	28.9	

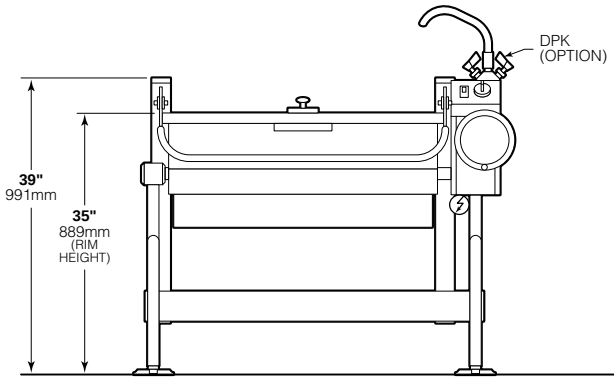
LEG LOCATION &
SUGGESTED FLOOR DRAIN DETAIL

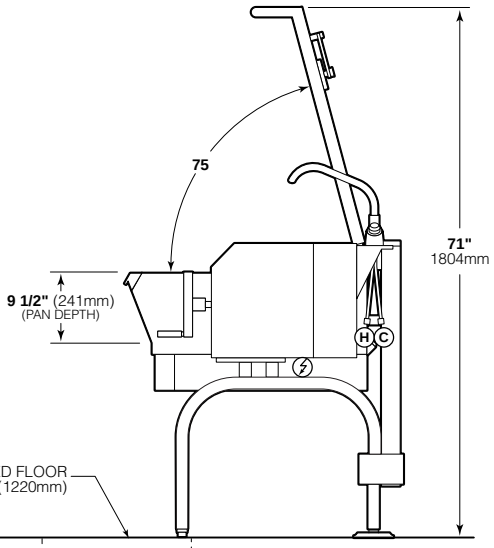


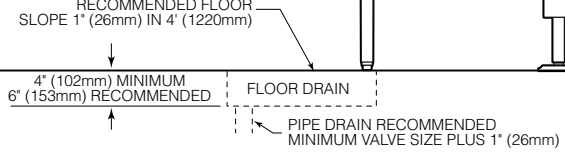




FLANGED FOOT DETAIL
(REAR LEGS ONLY)






RECOMMENDED FLOOR SLOPE 1" (26mm) IN 4' (1220mm)
4" (102mm) MINIMUM 6" (153mm) RECOMMENDED
FLOOR DRAIN
PIPE DRAIN RECOMMENDED MINIMUM VALVE SIZE PLUS 1" (26mm)

NOTES:
Cleveland Range reserves right of design improvement or modification, as warranted.
Many regional, state and local codes exist and it is the responsibility of the owner and installer to comply with the codes.
Cleveland Range equipment is built to comply with applicable standards for manufacturers.
Included among those approval agencies are U.L., NSF, CGA, CSA, ETL and others.

(NOT TO SCALE)

CLEVELAND RANGE SEL T1
SEQUENCE OF OPERATIONS

When using these instructions refer to the SEL-T1 wiring schematic.

1. Supply Voltage is sent to the primary of the120 VAC transformer.
2. Supply voltage is sent to the normally open contacts of the Heat Contactors, C1 and C2.
3. 120 VAC is sent from the secondary of the 120VAC transformer through the 3 amp fuse to
   - The primary of the 24 VAC transformer
     - 24 VAC is sent from the secondary of the 24VAC transformer through the 1.25 amp fuse to the on/off switch.
   - Contacts of the R1 Heat Relay
4. 120 VAC is sent from the secondary of the 120 VAC transformer to the optional Power Tilt Circuit (See step 9).

5. With the On/Off switch in the On position.
   - 24 VAC is sent through the normally closed high limit switch to the mercury switch..
   - If the skillet is in the down position then 24 VAC is sent through mercury switch to pin 9 on the thermostat.

6. If the steamer is calling for heat the 24 VAC is sent from pin number 10 to R1 Heat Relay.
   - The normally open contacts of the Heat relay close sending 120 VAC to the Heat contactor coils C1and C2.
7. The Contactor close and supply Voltage is sent to the elements.
   - The elements heat until the thermostat is satisfied.

8. When thermostat is satisfied, 24 VAC is removed from pin 10 on the thermostat and the heat circuit is de-energized.

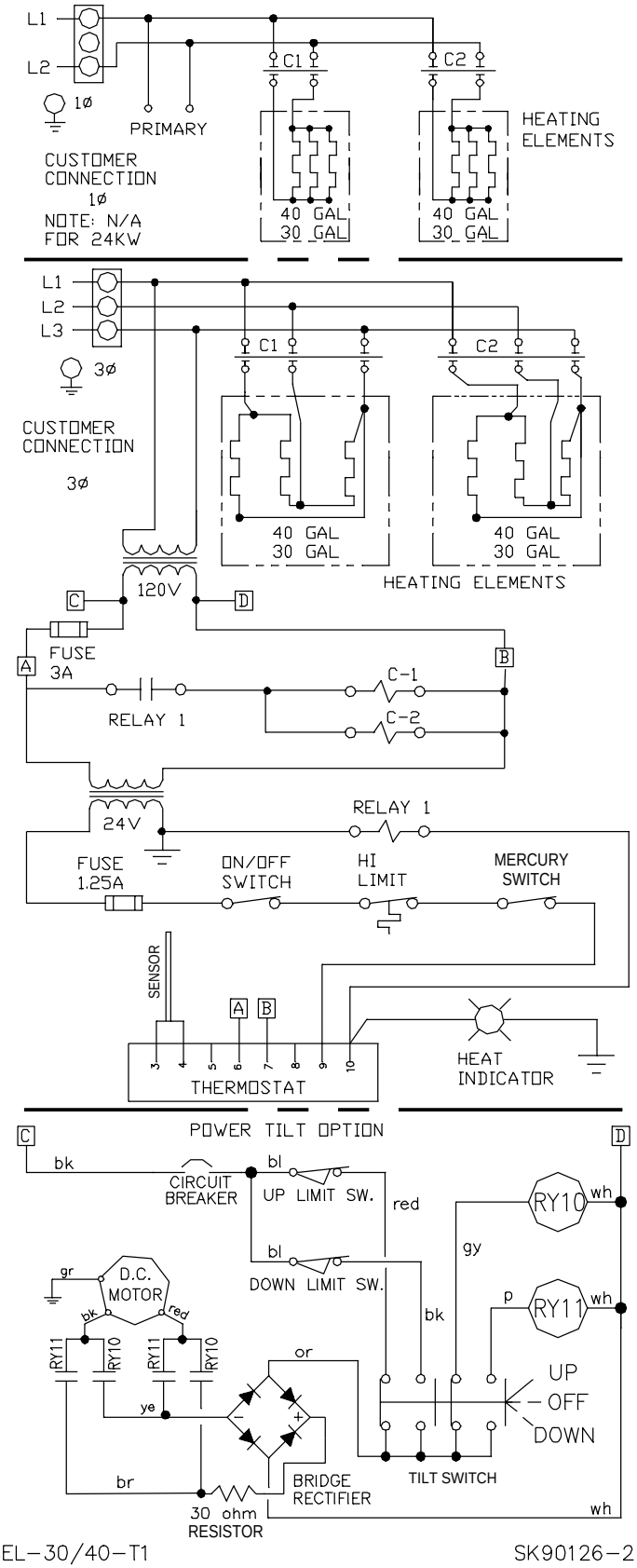
9. If the skillet has the optional Power Tilt option and is in the down position, 120 VAC is sent from the secondary of the 120 VAC transformer through the circuit breaker and the up limit switch to the tilt switch.

10. With the tilt switch in switch in the Up position
    - 120 VAC is sent to the Bridge Rectifier
      - 115 VDC is sent from the rectifier through the 30-ohm resistor to the normally open RY10 and RY11 relay contacts.
    - 120 VAC is sent to the RY10 relay coil.
    - The normally open RY10 contact close and 90 VDC is sent to the DC motor

- The DC motor is energized and the skillet tilts until the switch is released or the up limit switch opens.

11. With the Tilt switch in the Down position
    - 120 VAC is sent to the Bridge Rectifier
        - 115 DC is sent from the rectifier through the 30-ohm resistor to the normally open RY10 and RY11 relay contacts.
    - 120 VAC is sent to the RY11 relay coil.
    - The normally open RY11 contact close and the polarity of the 90 VDC is reversed.
    - The DC motor is energized and the skillet lowers until the switch is released or the Down limit switch opens.

WIRING DIAGRAM



SEL–30/40–T1 SK90126–2

ELECTRICAL COMPONENT PART #s

FUSE 3A	*KE52936-6*	*10*
FUSE 1.25A	*KE52936-8*	*10*
RELAY 1	*SK2475500*	*12*
HEATING ELEMENTS -		
SEE "PAN MOUNT ASSEMBLY" ON PAGE # 8		
ON/OFF SWITCH	*SK2474103*	*11*
HIGH LIMIT	*KE55069-7*	*8*
THERMOSTAT	*SK2142002*	*11*
SENSOR	*SK50933-1*	*8*
HEAT INDICATOR	*SK50905-1*	*16*
CIRCUIT BREAKER	*KE50579-1*	*10*
MERCURY SWITCH	*KE50294-1*	*10*
LIMIT SWITCH	*KE51007*	*9*
RY10 (RELAY)	*KE50753-10*	*12*
RY11 (RELAY)	*KE50753-10*	*12*
DC MOTOR	*KE52832-4*	*11*
BRIDGE RECTIFIER	*KE50581*	*12*
RESISTOR	*SK50930*	*12*
TILT SWITCH	*KE53137-3*	*11*
- SECTION	*KE53184*	*11*
- CONTACT BLOCK	*KE53138-1*	*11*

PowerPan™ SERIES

35" RIM HEIGHT
TILTING SKILLET, GAS

MODELS: ☐ SGL-30-T1
☐ SGL-40-T1

ITEM NUMBER _____

JOB NAME / NUMBER _____

Cleveland Standard Features

- Exclusive Ultra Efficient Power Burner (Forced-Air) Gas Combustion System with Automatic Ignition.
- Exclusive Dual Power Settings: 90,000 and 125,000 Btu for 30 gallons, 160,000 Btu and 200,000 Btu for 40 gallons provides superior heat-up and recovery.
- Open base design for easy cleaning and maintenance.
- 5/8" Stainless Steel Bead Blasted cooking surface prevents warping and keeps food from sticking.
- Durable 12 gauge, 304 Stainless Steel pan construction. 5/8″ (16mm) mild steel clad bottom plus a 1/16″ (1.6mm) Stainless Steel plate for even temperature distribution.
- Low 35" rim height for easy operation and cleaning.
- Splash Proof Controls and construction.
- Supplied with Cord & Plug for 115-volt controls.
- Easy-to-turn manual hand tilt. Optional power tilt with manual override available.
- Gallon/Liter Markings and Vented Spring Assist Cover standard.
- Available with Optional 2" Tangent Draw-Off Valve.
- 10° Cooking Feature. Tilt unit up to 10° without the power being turned off.
- Adjustable, Electronic Thermostat accurately controls temperature from 100° to 450° F.
- Electronic "Spark Ignition System Standard".
- Spring-Assist Cover with full width handle and vent.

Options & Accessories

- ❒ Power Tilt with Manual Override (PT1)
- ❒ 2" (50 mm) Tangent Draw-Off Valve (TD2)
- ❒ Double or Single Pantry Faucet (SPS, DPS)
- ❒ Faucet Bracket (FBKT1)
- ❒ Pan Carrier (PCS)
- ❒ Vegetable Steamer Baskets (VS)
- ❒ Hot & Cold Water Pre-Rinse Spray Head with Hose (PRS-S)
- ❒ Poaching Pans (PP)

Shown with optional Double Pantry Faucet and Bracket

Short Form Specifications

Shall be CLEVELAND, Tilting Skillet Model Number SGL-___-T1, gas (type____) holding no less than (____ gallons); Complete with Dual Power Setting, Normal and High Power Cooking Controls, Power Burner (Forced-Air) Gas Combustion System, Automatic Ignition, Splash-Proof Construction, Spring Assist Cover with Vent, Gallon/Liter Markings, 5/8" Stainless Steel Clad Cooking Surface with Bead Blasted Finish, Easy to use Manual Hand Tilt, Adjustable Feet with Rear Flanged and Front Bullet Style.

Cleveland Range Inc.
1333 East 179th St., Cleveland, Ohio, U.S.A. 44110
Ph: 1-216-481-4900 **Fx**: 1-216-481-3782
Visit our Web Site at **www.clevelandrange.com**

DIMENSIONS

MODEL	A	B	C	D	E (combustible wall)	E (non-combustible wall)	F	G
SGL-30-T1	**39 1/8"**	**24 1/2"**	**31 3/4"**	**12"**	**3 1/2"**	**0**	**18 1/4"**	**5 3/4"**
	(994mm)	(623mm)	(807mm)	(305mm)	(89mm)		(464mm)	(146mm)
SGL-40-T1	**51 1/8"**	**36 1/2"**	**43 3/4"**	**18"**	**3 1/2"**	**0**	**24 1/4"**	**5 3/4"**
	(1299mm)	(928mm)	(1112mm)	(458mm)	(89mm)		(616mm)	(146mm)

CAPACITIES

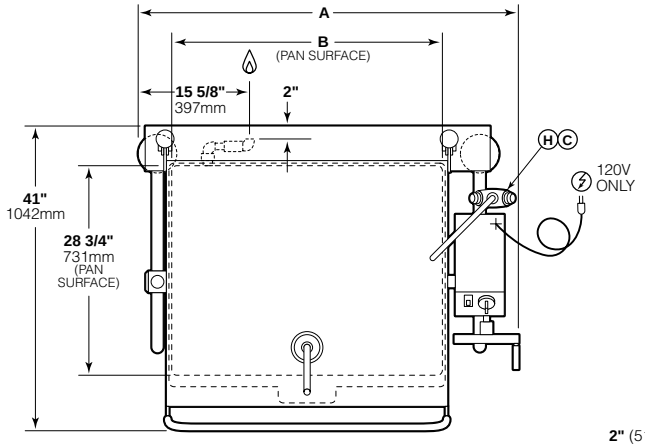
In 4 oz. servings. Other sizes may be calculated.
30 gallons / 115 Liters.....960
40 gallons / 150 Liters.....1280

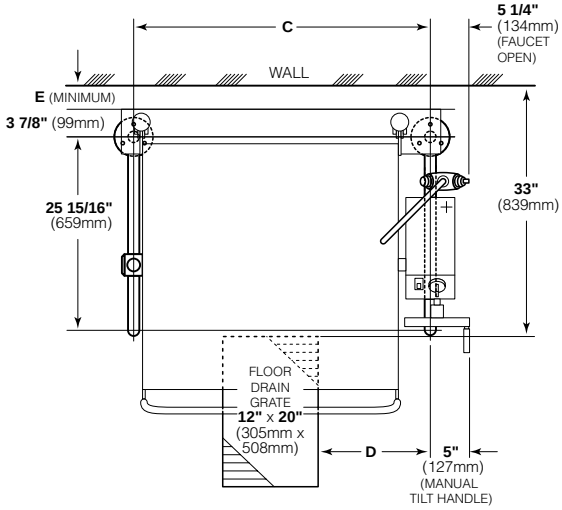
SPECIFICATIONS

ELECTRICAL SUPPLY	GAS SUPPLY (PIPING 3/4" NPT)	CLEARANCE	APPROX. SHIPPING WEIGHTS
VOLTS: 120 **PHASE**: 1 **AMPS**: 10 **FREQ**: 60 HZ	**TYPE**: NAT or LP **WATER COLUMN**: 3.5 (NAT), 10 (LP) **BTU PER CU. FT.**: 1025 (NAT), 2500 (LP) **SUPPLY PRESSURE**: 5" W.C. MIN (NAT), 11" W.C. MIN (LP) **BTU RATINGS**: ***SGL-30-T :*** 125,000 per hour ***SGL-40-T :*** 200,000 per hour	**RIGHT**: 3" (77mm) (manual tilt) 0 (power tilt) **LEFT**: 0" **REAR**: 0 (non-combustible wall) 3 1/2" (89mm) (combustible wall)	***SGL-30-T1*** 520 LBS. 235 KG. ***SGL-40-T1*** 560 LBS. 255 KG

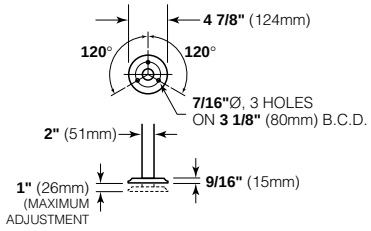
APPROVALS

AGA	CGA	NSF
✓	✓	✓

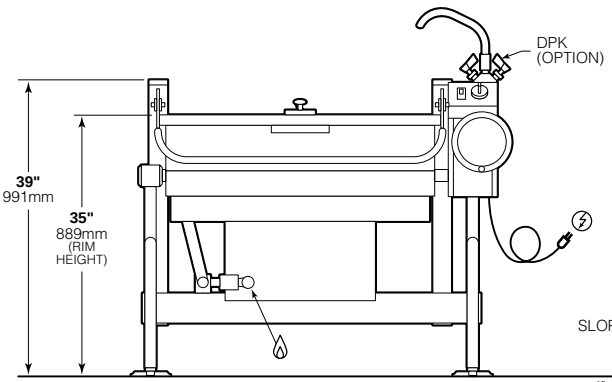


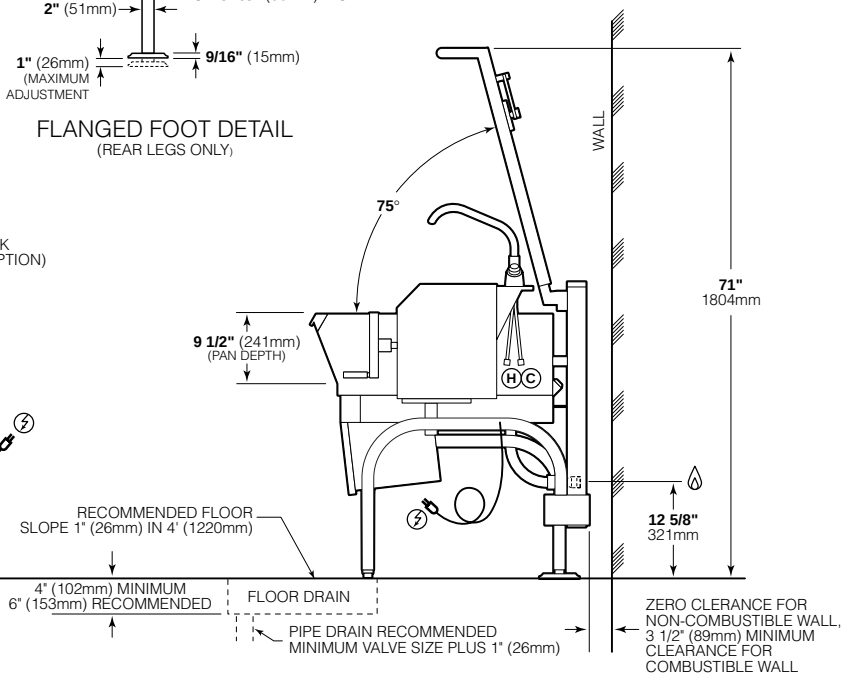


LEG LOCATION &
SUGGESTED FLOOR DRAIN DETAIL



FLANGED FOOT DETAIL
(REAR LEGS ONLY)





NOTES:
Cleveland Range reserves right of design improvement or modification, as warranted.
Many regional, state and local codes exist and it is the responsibility of the owner and installer to comply with the codes.
Cleveland Range equipment is built to comply with applicable standards for manufacturers.
Included among those approval agencies are U.L., NSF, CGA, CSA, ETL and others.

(NOT TO SCALE)

1201
Litho in U.S.A.

CLEVELAND RANGE SGL T1
SEQUENCE OF OPERATIONS

When using these instructions refer to the SGL-T1 wiring schematic.

1. 115 VAC is sent through the 3 amp fuse to
- The primary of the 24 VAC transformer
    - 24 VAC is sent from the secondary of the 24VAC transformer to the Hi/Off/Low Switch.
- Contacts of the R1 Blower Relay
- The optional Power Tilt Circuit

2. With the Hi/Off/Low switch in the Low position.
- 24 VAC is sent through the normally closed high limit switch to the mercury switch.
- If the skillet is in the down position then 24 VAC is sent through mercury switch to pin 9 on the thermostat.

3. With the Hi/Off/Low Switch in the Hi position 24 VAC is also sent to the Hi terminal on the gas valve.
- Gas will not leave the valve until the main gas valve opens (see step 7).

4. If the steamer is calling for heat the 24 VAC is sent from pin number 10 to R1 Blower Relay.
- The normally open contacts of the blower relay close sending 115 VAC to the blower.
- The blower turns closing the air switch.
- 24 VAC is sent through the now closed air switch to the ignition module.

5. Ignition module sends spark from terminal SP to the igniter.

6. Ignition module also sends 24 VAC from pins PV and MV/PV to the pilot coil of the gas valve pins P and C.
- Pilot valve opens sending gas to the Pilot assembly.
- Spark and gas meet and pilot is ignited.
- AC current is passed through the flame and rectified then sent back to the ignition module.

7. If the ignition module reads a minimum of 1.0 micro-amps through the burner ground then 24 VAC is sent from pins MV and MV/PV of the ignition module to pins M and C on the Gas valve.
- The main (low) gas valve opens and gas (2.2” W.C. natural gas or 6.7” W.C. LP) is sent to the burner.
- If the skillet is in the Hi position (see step 3) 24VAC will be at the HI terminal and the gas pressure will be 3.2” W.C. natural or 10.0” W.C. LP.

- Burner ignites until thermostat is satisfied.

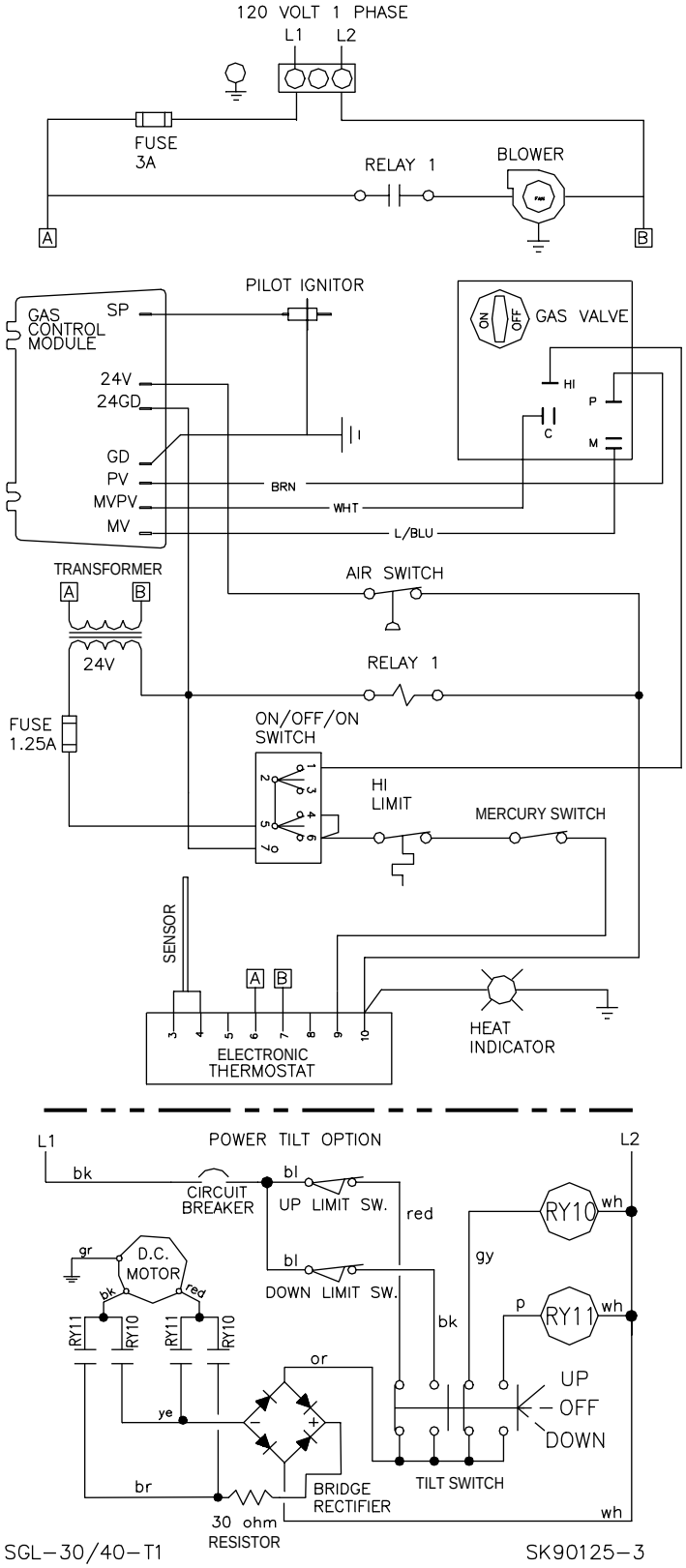
8. When thermostat is satisfied, 24 VAC is removed from pin 10 on the thermostat and the heat circuit is de-energized

9. If the skillet has the optional Power Tilt option and is in the down position, 115 VAC is sent from the customer connect through the circuit breaker and the up limit switch to the tilt switch.

10. With the tilt switch in switch in the Up position
    - 115 VAC is sent to the Bridge Rectifier
        - 115 VDC is sent from the rectifier through the 30-ohm resistor to the normally open RY10 and RY11 relay contacts.
    - 115 VAC is sent to the RY10 relay coil.
    - The normally open RY10 contact close and 90 VDC is sent to the DC motor
    - The DC motor is energized and the skillet tilts until the switch is released or the up limit switch opens.

11. With the Tilt switch in the Down position
    - 115 VAC is sent to the Bridge Rectifier
        - 115 DC is sent from the rectifier through the 30-ohm resistor to the normally open RY10 and RY11 relay contacts.
    - 115 VAC is sent to the RY11 relay coil.
    - The normally open RY11 contact close and the polarity of the 90 VDC is reversed.
    - The DC motor is energized and the skillet lowers until the switch is released or the Down limit switch opens.

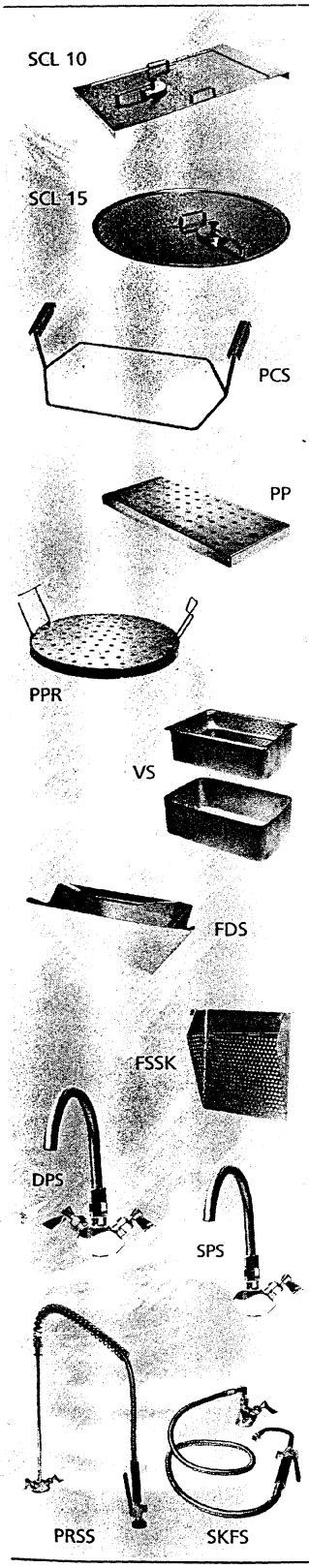
WIRING DIAGRAM



ELECTRICAL COMPONENT PART #s

		SEE PAGE #
FUSE 3A	*KE52936-6*	*12*
FUSE 1.25A	*KE52936-8*	*12*
RELAY 1	*SK2475500*	*17*
BLOWER	*SK2476000*	*14*
PILOT IGNITOR	*SK2477000*	*17*
GAS CONTROL MODULE	*SK2475300*	*17*
GAS VALVE (NATURAL)	*SK2488200*	*15*
GAS VALVE (LP)	*SK2488201*	*15*
TRANSFORMER, 24V	*KE53838-25*	*12*
AIR SWITCH	*SK2488100*	*14*
ON/OFF/ON SWITCH	*SK2474102*	*16*
HIGH LIMIT	*KE55069-7*	*17*
MERCURY SWITCH	*KE50294-1*	*12*
THERMOSTAT	*SK2142002*	*16*
SENSOR	*SK50933-1*	*14*
HEAT INDICATOR	*SK50905-1*	*16*
CIRCUIT BREAKER	*KE50579-1*	*12*
LIMIT SWITCH	*KE51007*	*11*
RY10 (RELAY)	*KE50753-10*	*9*
RY11 (RELAY)	*KE50753-10*	*9*
DC MOTOR	*KE52832-4*	*12*
BRIDGE RECTIFIER	*KE50581*	*9*
RESISTOR	*SK50930*	*9*
MERCURY SWITCH	*KE53137-3*	*11*
- SECTION	*KE53184*	*11*
- CONTACT BLOCK	*KE53138-1*	*11*

Cleveland Tilting Skillets **Accessories**



Model #	Description	Price
Lift-Off Covers		
SCL10	for Model SET10	$490
SCL15	for Model SET5 Standard on SET10, SET15	$370
Miscellaneous Cooking Accessories		
Pan Carrier		
PCS	for Floor Model Skillets (T4 Series P/N 2499999) (R Series P/N 2240099)	$540
Poaching Pans		
PP	Model SET10 holds 1 pan	$450
	(30 Gallon models hold 2 pans, and 40 Gallon models hold 3 pans)	(each)
PPR	for model SET15 only	$550
Vegetable Steamer (including 4", full size, Perforated Pan)		
VS	Table Top models hold 1 pan	$440
	(30 Gallon models hold 2 pans, and 40 Gallon models hold 3 pans)	(each)
Flow Diverter		
FDS	for Model SET15 only	$580
Food Strainer		
FSSK	for 30 and 40 Gallon skillets (P/N 2390800)	$330
Faucets		
Pantry Faucets		
SPS	Single Pantry Faucet with 3/4" Swing Spout (P/N 107475)	$300
DPS	Double Pantry Faucet with 3/4" Swing Spout(P/N 107476)	$330
CK173	Double Pantry Faucet Kit for T4 Skillets	$350
Skillet Fillers		
SKFS	Single Pantry Skillet Filler with 60" hose (P/N 105978)	$670
DKFS	Double Pantry Skillet Filler with 60" hose (P/N 105979)	$860
H/C Pre-Rinse Spray Head with Hose (requires FBSM bracket)		
PRSS	Pre-rinse Spray Hose (P/N 105980)	$910
Faucet Brackets		
FBSL	Faucet Bracket for SET Series Skillets (P/N 2302200)	$120
FBSM	Faucet Bracket for Floor Model Skillets (P/N 2382300)	$120

Cleveland Range reserves right of design improvements or modifications, as warranted.

Cleveland Training Notes